

Hear the truth.



# CINEMA BD100/ CINEMA BD300

Home theater system



Cinema BD300 (120V version) system shown

**OWNER'S MANUAL**

## BD/DVD REGION CODES

Your BD receiver is designed to be compatible with region-management information that is encoded on most Blu-ray Disc™ and DVD recordings. Your receiver will play only discs that contain region coding for the area where your receiver was shipped and intended for sale:

AREA WHERE SOLD	BLU-RAY DISC REGION CODE	DVD REGION CODE
USA, Canada		
Europe, Middle East		
Korea, S.E. Asia		
Mexico, Latin America		
Australia, New Zealand		
Russia, India		
China		

For example, BD receivers shipped to and sold in the USA will play only Blu-ray™ discs that contain region code A and DVD discs that contain region code 1.

## TABLE OF CONTENTS

<b>INTRODUCTION</b>	<b>3</b>
<b>VERIFY LINE VOLTAGE BEFORE USING</b>	<b>3</b>
<b>UNPACKING</b>	<b>3</b>
<b>INSTALLATION LOCATION</b>	<b>4</b>
<b>CLEANING</b>	<b>4</b>
<b>MOVING THE RECEIVER</b>	<b>4</b>
<b>SUPPLIED ACCESSORIES</b>	<b>4</b>
<b>RECEIVER FRONT-PANEL CONTROLS</b>	<b>5</b>
<b>RECEIVER REAR-PANEL CONNECTIONS</b>	<b>6</b>
<b>REMOTE-CONTROL FUNCTIONS</b>	<b>8</b>
<b>CONNECTIONS</b>	<b>10</b>
<b>PREPARING THE REMOTE CONTROL</b>	<b>14</b>
<b>SETTING UP THE RECEIVER</b>	<b>15</b>
<b>USING THE RECEIVER</b>	<b>19</b>
<b>USING THE DISC PLAYER</b>	<b>21</b>
<b>PLAYING STREAMING MEDIA VIA YOUR HOME NETWORK</b>	<b>23</b>
<b>LISTENING TO FM RADIO</b>	<b>24</b>
<b>LISTENING TO AUDIO SOURCES</b>	<b>24</b>
<b>PLAYING FILES FROM USB DEVICES AND DATA DISCS</b>	<b>24</b>
<b>USING PLAYLISTS</b>	<b>27</b>
<b>TROUBLESHOOTING</b>	<b>28</b>
<b>SPECIFICATIONS</b>	<b>29</b>

## INTRODUCTION

Please register your product on our Web site at [www.jbl.com](http://www.jbl.com).

Note: You'll need the product's serial number. At the same time, you can choose to be notified about our new products and/or special promotions.

### THANK YOU FOR CHOOSING JBL® PRODUCTS!

The BD series of home theater systems offers a complete home entertainment solution with a wealth of listening and viewing options. To get the maximum enjoyment from your new system, we urge you to read this manual thoroughly and refer back to it as you become more familiar with your new system's features and their operation.

If you have any questions about this product, its installation or its operation, please contact your retailer or custom installer, or visit our Web site at [www.jbl.com](http://www.jbl.com).

### VERIFY LINE VOLTAGE BEFORE USING

Your BD receiver has been designed for use with 100 – 240-volt, 50Hz/60Hz AC current and includes a detachable power cable intended for use in the region where the system is sold.

Connection to a line voltage other than that for which the unit is intended can create a safety and fire hazard and may damage the unit. If you have any questions about the voltage requirements for your specific model or about the line voltage in your area, contact your dealer before plugging the unit into a wall outlet.

### UNPACKING

The carton and shipping materials used to protect your new receiver during shipment were specially designed to cushion it from shock and vibration. We suggest that you save the carton and packing materials for use in shipping if you move or if the unit ever needs repair.

To minimize the size of the carton in storage, you may wish to flatten it. You can do it by carefully slitting the tape seams on the carton's bottom and collapsing it. You can store cardboard inserts in the same manner. Packing materials that cannot be collapsed should be saved along with the carton in a plastic bag.

If you do not wish to save the packaging materials, please note that the carton and other sections of the shipping-protection materials are recyclable. Please respect the environment and discard those materials at a local recycling center.

Remove the protective plastic film from the front-panel lens. Leaving the film in place will affect the performance of your remote control.

## INSTALLATION LOCATION

- To ensure proper operation and to avoid the potential for safety hazards, place the receiver on a firm and level surface. When placing the receiver on a shelf, be certain that the shelf and any mounting hardware can support the weight of the receiver.
- Provide proper space both above and below the receiver for ventilation. If the receiver will be installed in a cabinet or other enclosed area, make certain that there is sufficient air movement within the area. Under some circumstances, a fan may be required.
- Do not place the receiver directly on a carpeted surface.
- Avoid installation in extremely hot or cold locations or in an area that is exposed to direct sunlight or heating equipment.
- Avoid moist or humid locations.
- Do not obstruct the fan vents on the rear panel or the ventilation slots on the top and sides of the receiver or place objects directly over or next to them.
- Do not place the receiver directly on top of a product that generates excessive heat.
- Due to the heat generated by the receiver, there is the remote possibility that the rubber padding on the bottom of the receiver feet may leave marks on certain wood or wood-veneer materials. Use caution when placing the receiver on soft woods or other materials that heat or heavy objects may damage. Some surface finishes may be particularly sensitive to absorbing such marks, due to a variety of factors beyond HARMAN International's control, including the nature of the finish, cleaning materials used, normal heat and vibration caused by the use of the receiver, or other factors. Your warranty will not cover this type of damage to furniture, so exercise caution in choosing an installation location for the receiver and in performing normal maintenance practices.
- Your new JBL Blu-ray Disc receiver requires a broadband Internet connection for streaming capability and BD-Live™ interactivity.

## CLEANING

When the receiver gets dirty, wipe it with a clean, soft, dry cloth. If necessary, and only after unplugging the AC power cord, wipe it with a soft cloth dampened with mild soapy water, then a fresh cloth with clean water. Wipe it dry immediately with a dry cloth. NEVER use benzene, aerosol cleaners, thinner, alcohol or any other volatile cleaning agent. Do not use abrasive cleaners, as they may damage the finish of metal parts. Avoid spraying insecticide near the receiver.

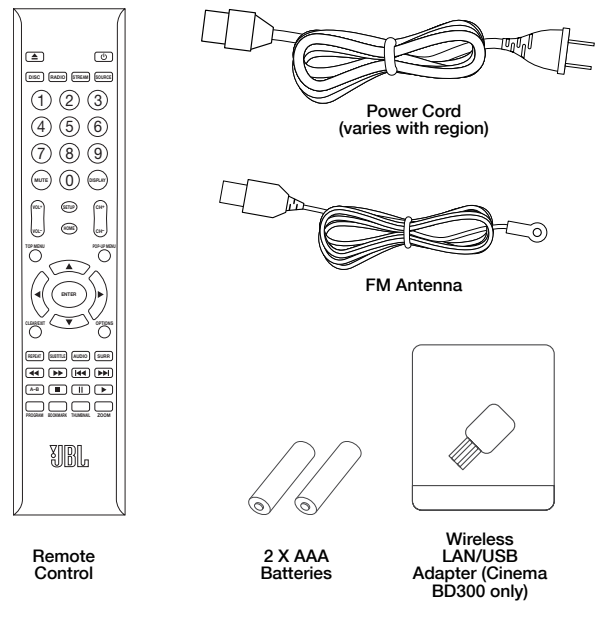
## MOVING THE RECEIVER

Before moving the receiver, disconnect any interconnection cords to other components, and disconnect the receiver from its AC outlet.

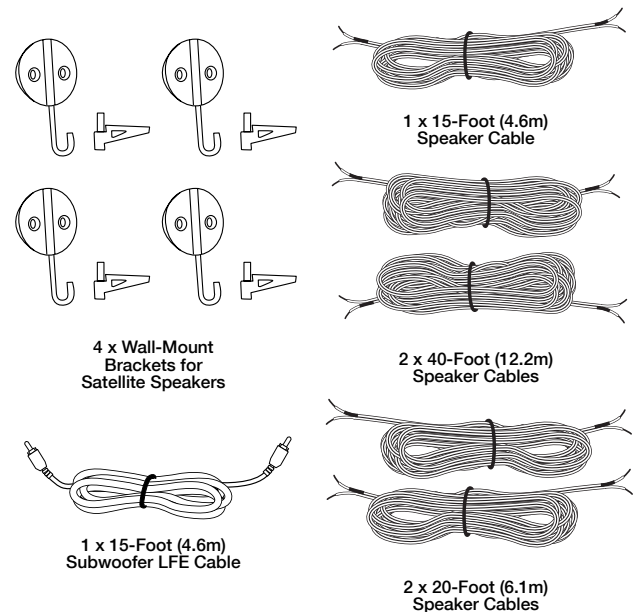
## SUPPLIED ACCESSORIES

If any of these items are missing, please contact JBL Customer Service via [www.jbl.com](http://www.jbl.com).

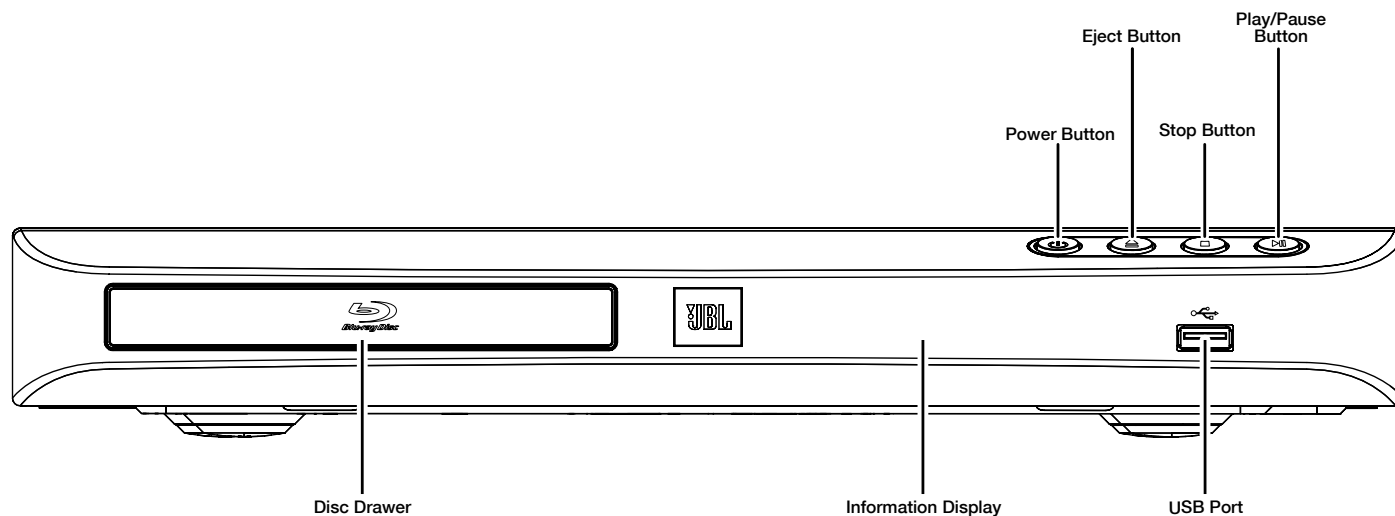
### IN RECEIVER BOX



### IN SPEAKER BOX (CINEMA BD300 ONLY)



## RECEIVER FRONT-PANEL CONTROLS



**Eject button:** Touch this button to eject a disc from the BD receiver's built-in disc player. Before touching this button, make sure no objects are blocking the disc drawer.

**Disc drawer:** Insert a compatible disc into the drawer. The BD receiver's disc player will accept 5-inch (12cm) and 3-inch (8cm) discs.

**Information display:** Various messages appear on this display in response to commands and to show the audio/video that is playing, the BD receiver's settings or other aspects of the receiver's status as described throughout this manual.

**USB port:** You can use the USB port to play media files from a USB device inserted into the port. Insert the device into the USB port oriented so it fits all the way into the port. You may insert or remove the device at any time – there is no installation or ejection procedure.

You can also use the USB port to perform firmware upgrades. If an upgrade for the receiver's operating system is released in the future, you will be able to download it to the receiver using this port. Complete instructions will be provided at that time.

**IMPORTANT: Do not connect a PC or other USB host/controller to this port, or you may damage both the BD receiver and the other device.**

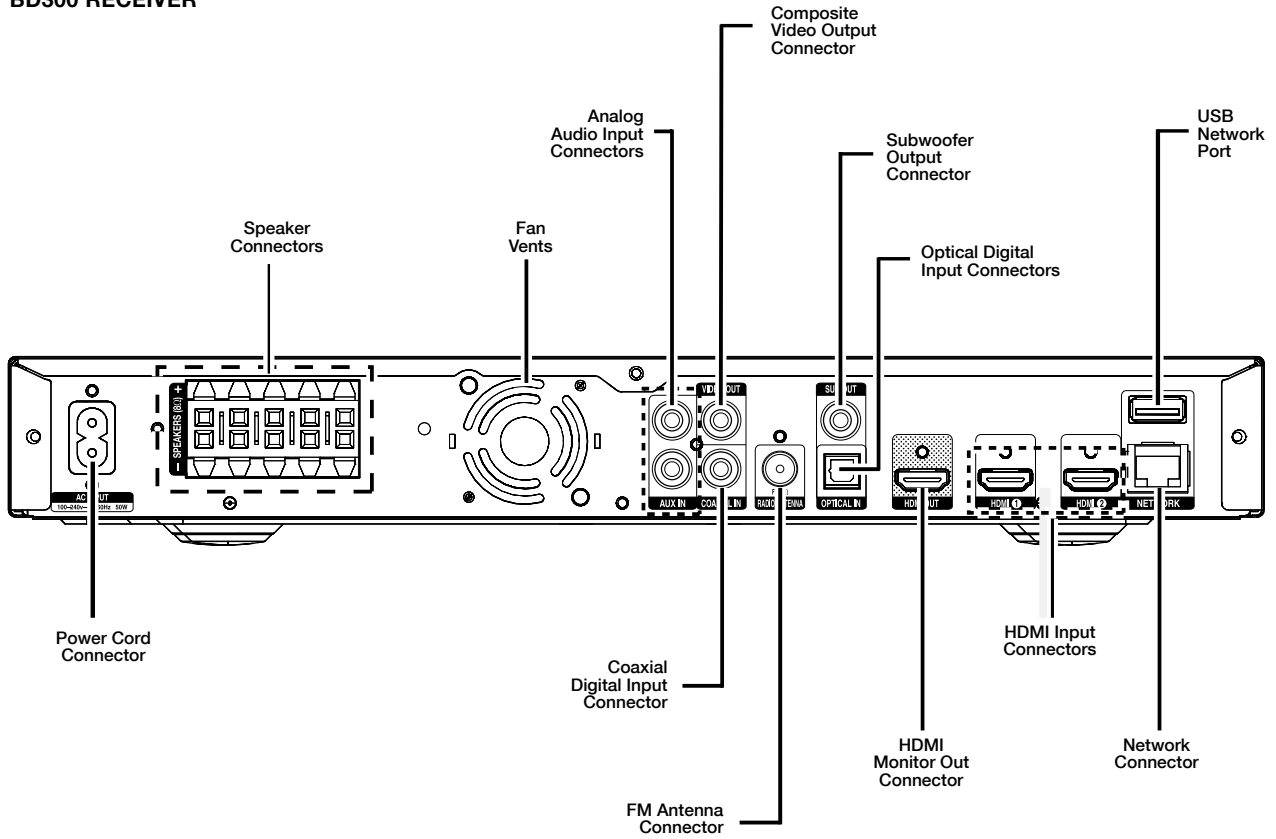
### Power button:

- Press the button to toggle the receiver between the On and Standby modes. NOTE: If the receiver goes for 30 minutes without receiving an audio signal or a user command, it will automatically enter the Standby mode to conserve electrical power.

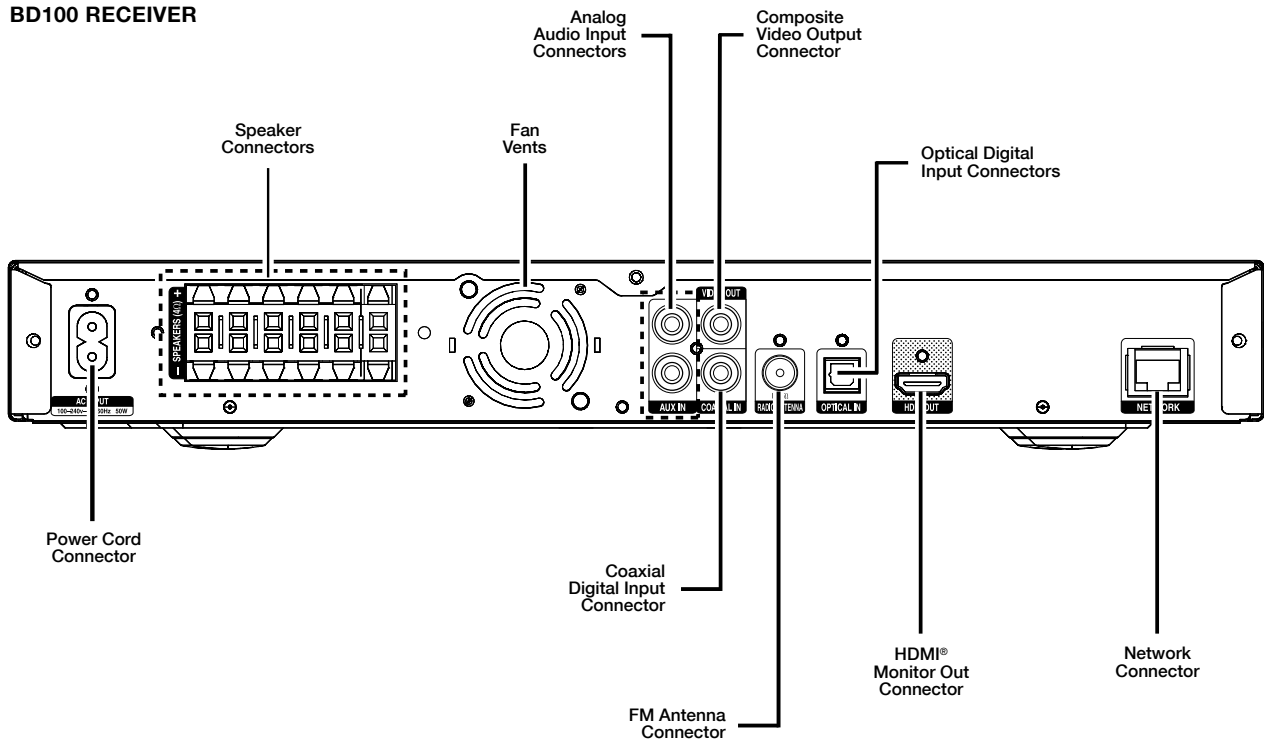
**IMPORTANT: Do not turn the receiver's volume up to or past the point where the audio from the speakers becomes distorted. Doing so can damage the speakers.**

# RECEIVER REAR-PANEL CONNECTIONS

## BD300 RECEIVER



## BD100 RECEIVER



NOTE: See the *Connections* section, on page 10, for detailed information about making connections.

**Fan vents:** These vents are used by the receiver's fan to cool the unit. Maintain a clearance of at least three inches (75mm) from the nearest surface to avoid overheating the unit.

**IMPORTANT NOTE: Never block the fan vents. Doing so could allow the receiver to overheat to dangerous levels.**

**Speaker connectors:** Use the speaker wires supplied with the speakers to connect the speakers to the proper terminals.

- BD100 receivers have connections for six speakers: front left, front right, surround left, surround right, center and subwoofer.
- BD300 receivers have connections for five speakers: front left, front right, surround left, surround right and center. (The receiver also has a line-level output for the system's powered subwoofer.)

See *Connections*, on page 10, for more information.

**Coaxial Digital Input connector:** Connect the coaxial digital output of an audio-only source component here. The signal may be a Dolby® Digital bitstream, a DTS® bitstream or a standard PCM digital-audio bitstream.

NOTE: Use only one type of digital connection for each source component.

**Subwoofer Output connector (BD300 receiver only):** Use the supplied subwoofer LFE cable to connect this jack to the included powered subwoofer's LFE jack. See *Connecting the Powered Subwoofer*, on page 11, for more details about making connections.

**Analog Audio Input connectors:** Use these connectors to connect to an audio-only source device (such as a tape deck). Do not connect a turntable to these connectors without a phono preamp.

**FM Antenna connector:** Connect the supplied FM antenna to this terminal.

**Optical Digital Input connectors:** Connect the optical digital output of an audio-only source component here. The signal may be a Dolby Digital bitstream, a DTS bitstream or a standard PCM digital-audio bitstream.

NOTE: Use only one type of digital connection for each source component.

**Network connector:** Use a Cat. 5 or Cat. 5E Ethernet cable (not supplied) to connect the receiver's Network connector to your home network to enjoy streaming content and content from DLNA®-compatible devices that are joined to the network. See *Connecting to Your Home Network*, on page 13, for more information.

**USB Network port (BD300 receiver only):** If your home network is a Wi-Fi® network, insert the supplied Wireless LAN/USB adapter into this port. See *Connecting to Your Home Network*, on page 13, for more information.

- Do not insert a USB memory stick or similar device into the rear-panel USB Network port. The port will work only with a USB network adapter like the one supplied with the receiver.

**HDMI® Monitor Out connector:** Connect the BD receiver's HDMI output to your TV's HDMI input. Since the HDMI cable transmits both video and audio to the TV, we recommend that you set the receiver's HDMI audio output to Off in the receiver's Audio menu to take full advantage of your home theater system's superior audio performance. If your TV is 3D-capable, you can watch 3D content in 3D either from the receiver's built-in disc player or from other 3D-capable source devices connected to the receiver's HDMI Input connectors (BD300 receiver only, see below).

The receiver's HDMI Monitor Out connection also contains an Audio Return Channel that carries a digital audio signal from your TV or video display back to the receiver. It allows you to listen to HDMI devices that are connected directly to your TV (such as an Internet connection) without making an additional connection from the device to the receiver. Note: You must enable your TV's Audio Return Channel output. Consult your TV's instruction manual for information.

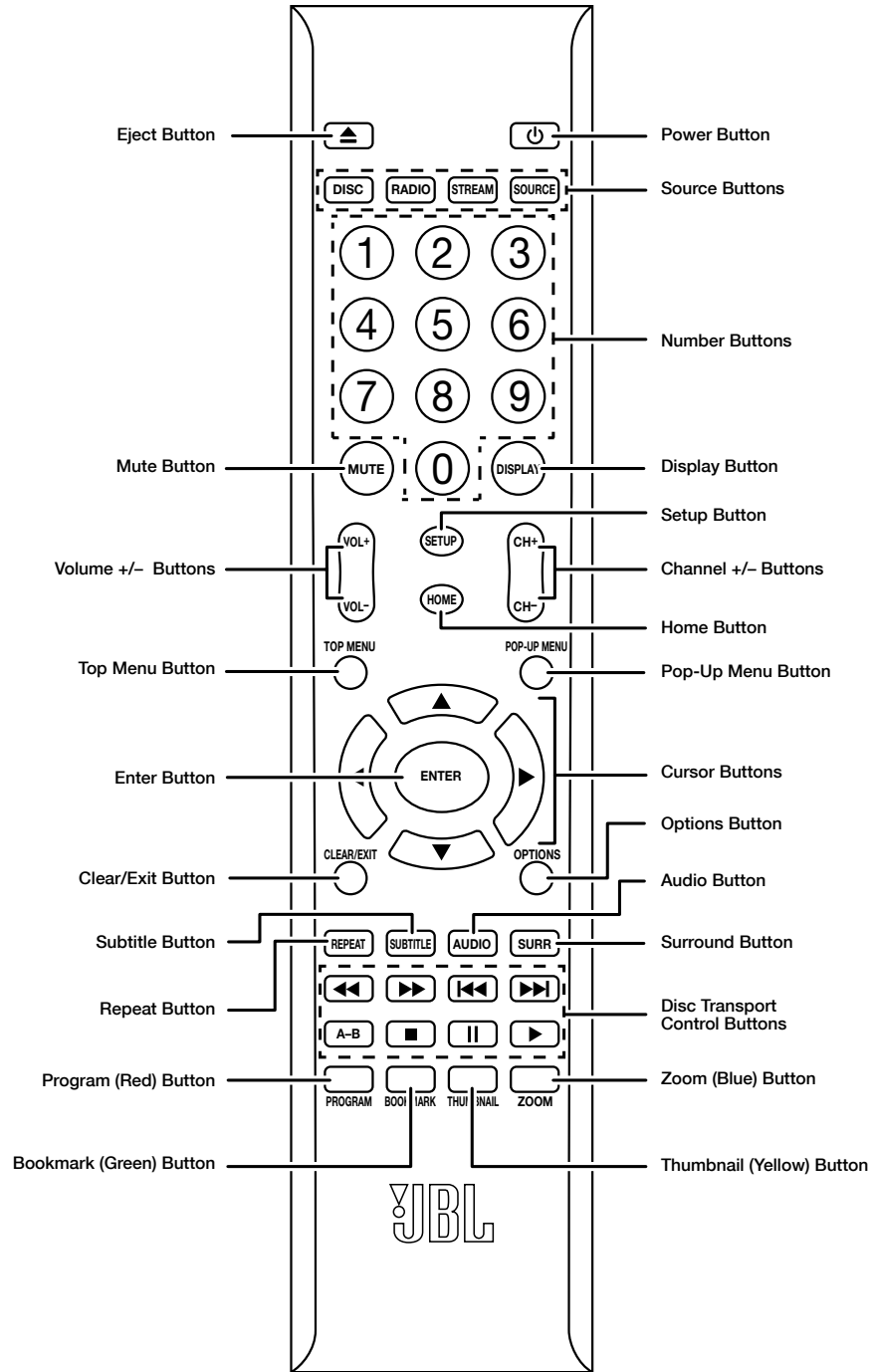
**HDMI Input connectors (BD300 receiver only):** You can connect up to two additional source devices that have HDMI connectors to the BD300 receiver. The HDMI connection transmits digital audio and video signals between devices, so you do not have to make any additional audio connections for these devices. The receiver will pass 3D video signals from 3D-capable HDMI source devices to the TV via the HDMI Monitor Out connector. See *Connecting Your HDMI Source Devices*, on page 12, for more information.

**Composite Video Output connector:** If your TV does not have an HDMI connection, connect it to the BD receiver's Composite Video Output connector.

*BD300 receiver only:* Video signals from source devices connected to the receiver's HDMI Input connectors will not appear at the receiver's Composite Video output connection. If you are connecting HDMI sources to the receiver, you must use the receiver's HDMI Monitor Out connection.

**Power Cord connector:** After you have made and verified all other connections, plug the supplied AC power cord into this input and into an unswitched AC outlet.

# REMOTE-CONTROL FUNCTIONS





**Eject button:** Press this button to eject a disc from the BD receiver's built-in disc player. Before pressing this button, make sure no objects are blocking the disc drawer.

**Power button:** Pressing this button toggles the receiver between the On and Standby modes. NOTE: If the receiver goes for 30 minutes without receiving an audio signal or a user command, it will automatically enter the Standby mode to conserve electrical power.

**Source buttons:** Press one of these buttons to select a source device. This action will also turn on the receiver from the Standby mode.

- Pressing "Disc" selects the receiver's built-in disc player.
- Pressing "Radio" selects the receiver's built-in FM tuner.
- Pressing "Stream" selects a *Bluetooth*® playback device that has been paired with the receiver, DLNA-compatible devices on your local area network or one of the available on-line streaming services: YouTube™ streaming; Picasa™ image-sharing service; Pandora® music service. (Note: Streaming services are region-dependent.)
- Each press of the Source button cycles the receiver among the following sources: Auxiliary Analog Input, Optical Digital Input, Coaxial Digital Input, HDMI ARC, HDMI 1 (BD300 only) and HDMI 2 (BD300 only).

**Number buttons:** Use these buttons for entering disc track numbers, chapter search, etc.

**Mute button:** Press this button to mute the sound from the receiver's speaker outputs. Press the button again to un-mute the sound. NOTE: The Mute button does not mute the HDMI audio output.

**Display button:** When you are playing Blu-ray Disc and DVD recordings, pressing this button activates a bar display containing information about the disc or program that's currently playing. When you are playing a video or photo slideshow from an inserted USB device, pressing this button displays the Status bar. The button does not function when the receiver is playing material from an auxiliary source or the radio.

**Setup button:** Press this button to display the receiver's setup-menu system. See *Settings Menu*, on page 15, for more information.

**Volume +/- buttons:** Press these buttons to increase or decrease the volume of the receiver's speaker outputs. NOTE: The Volume +/- buttons do not change the volume of the HDMI audio output.

**IMPORTANT: Do not turn the Volume buttons up to or past the point where the audio from the speakers becomes distorted. Doing so can damage the speakers.**

**Channel +/- buttons:** When the Radio or Pandora (US only) source is selected on the remote control, the Channel +/- buttons select the next higher or lower preset station.

**Home button:** Pressing this button returns the on-screen display to the Home screen from whatever screen is active when the button is pressed.

**Top Menu button:** Displays the top menu of the Blu-ray Disc recording or DVD that is playing. NOTE: This feature is disc-dependent. Not all discs have top menus. If the disc has no top menu, pressing the Top Menu button may display the disc menu, depending on how the disc's menu system was authored. See *Using the Disc Player*, on page 21, for details.

**Pop-Up Menu button:** Pressing this button while playing a Blu-ray Disc recording or DVD displays its disc menu. NOTE: This feature is disc-dependent. Not all discs have pop-up menus. If a disc has no pop-up menu, pressing the Pop-Up button may display the disc menu, depending on how the disc's menu system was authored.

**Enter button:** Press this button to select the highlighted item on the on-screen menu.

**Cursor buttons:** Use these buttons to navigate through items on the on-screen menu.

**Options button:** Pressing this button displays any available options for the item that is active at the time the button is pressed.

**Clear/Exit button:** Pressing this button exits the current on-screen menu and displays the previous screen.

**Audio button:** When playing a Blu-ray disc or DVD, press this button to display the audio menu for the disc. When listening to FM radio, press the button to switch between stereo and mono reception modes. (Mono reception may reduce background noise when you are listening to stations with weak signals.)

**Subtitle button:** When playing a Blu-ray disc or DVD, press this button to toggle through the different subtitle options that are available. NOTE: This feature is disc-dependent. Not all discs feature multiple subtitle options.

**Surround button:** Pressing this button cycles through all of the surround-sound modes that are available for the program currently playing. Each press of the Surround button will change to the next mode in line. A pop-up display will appear, showing the modes as you cycle through them. NOTE: Not all surround modes will be available for all programs. See *Surround-Sound Modes*, on page 21, for more information.

**Repeat button:** When the receiver is playing a Blu-ray disc, pressing this button cycles through the following repeat modes: Chapter, Title, Off. When the BD receiver is playing a DVD, pressing this button cycles through the following repeat modes: Chapter, Title, All, Off. When the receiver is playing a CD or media stored on a USB device, this button cycles through the following repeat modes: Track, All, Off.

**Disc Transport Control buttons:** These buttons control the BD receiver's built-in Blu-ray Disc player, USB devices and streaming sources.

**Program (Red) button:** Press this button to create a programmed playback list for the disc currently playing. See *Programmed Play*, on page 22, for more information.

**Zoom (Blue) button:** Press the Zoom button to zoom in on or recede from a video image or slide that is playing on USB media or a CD data disc. Use the Navigation buttons to zoom in on different sections of the image. NOTE: This function is disc-dependent for Blu-ray Disc recordings and DVDs. Not all discs can be zoomed in on.

**Bookmark (Green) button:** Press this button to activate the Bookmark function. See *Bookmark Function*, on page 22, for more information.

**Thumbnail (Yellow) button:** Press this button while playing a photo slide show to display thumbnail images of all photos in the slide show.

**Red, Green, Yellow and Blue buttons:** When the BD receiver is playing a Blu-ray disc, these buttons can activate features and menus that may vary from disc to disc. Refer to the menu instructions for each particular disc for more information. NOTE: These Blu-ray Disc functions may override the Bookmark, Thumbnail, Program and Zoom functions.

## CONNECTIONS

NOTE: Connections for the Cinema BD100 and Cinema BD300 are identical except where noted.

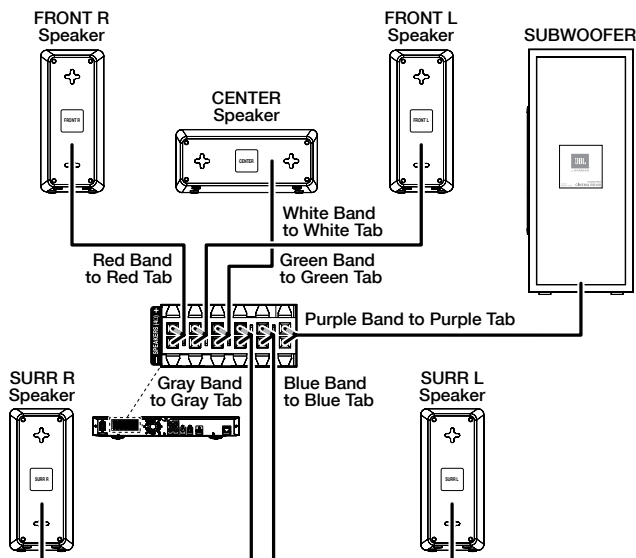
### CONNECT THE SPEAKERS: BD100

**CAUTION:** Before making any connections to the BD100 receiver, ensure that the receiver's AC cord is unplugged from the receiver and the AC outlet. Making speaker connections with the receiver plugged in and turned on could damage your speakers.

Your Cinema BD100 receiver has color-coded speaker connectors and the Cinema BD100 speaker wires are color-coded to make it easy to connect the speakers properly.

white	front left (+)
red	front right (+)
blue	surround left (+)
gray	surround right (+)
green	center (+)
purple	subwoofer (+)
black	(-) on all speakers

Connect the speaker's wire with the colored band to the receiver's speaker terminal with the same color. Connect the speaker's black wire to the black receiver speaker terminal directly under the colored terminal. Wiring one or more speakers incorrectly results in thin sound, weak bass and poor surround-sound envelopment.



**IMPORTANT:** Make sure the (+) and (-) bare wires do not touch each other or any metal object on the receiver's rear panel. Touching wires can cause a short circuit that can damage the BD100 receiver.

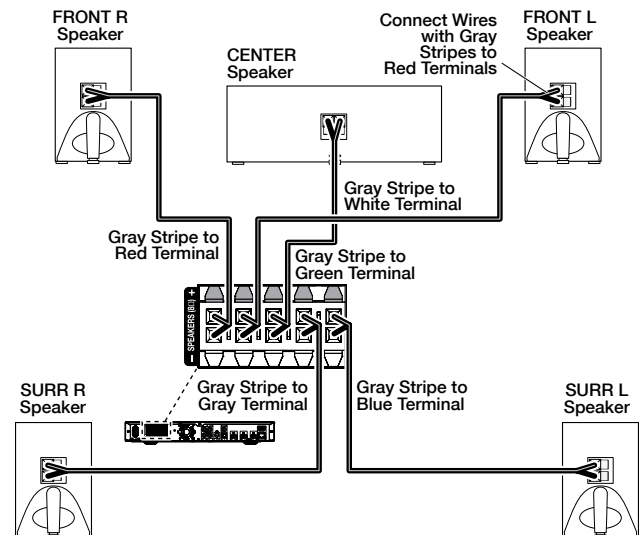
### CONNECT THE SPEAKERS: BD300

**CAUTION:** Before making any connections to the BD300 receiver, ensure that the receiver's AC cord is unplugged from the receiver and the AC outlet. Making speaker connections with the receiver plugged in and turned on could damage your speakers.

Your Cinema BD300 receiver has color-coded speaker connectors. Press the tab to open the connector, insert the bare wire into the opening and release the tab to secure the wire.

white	front left (+)
red	front right (+)
blue	surround left (+)
gray	surround right (+)
green	center (+)
black	(-) on all channels

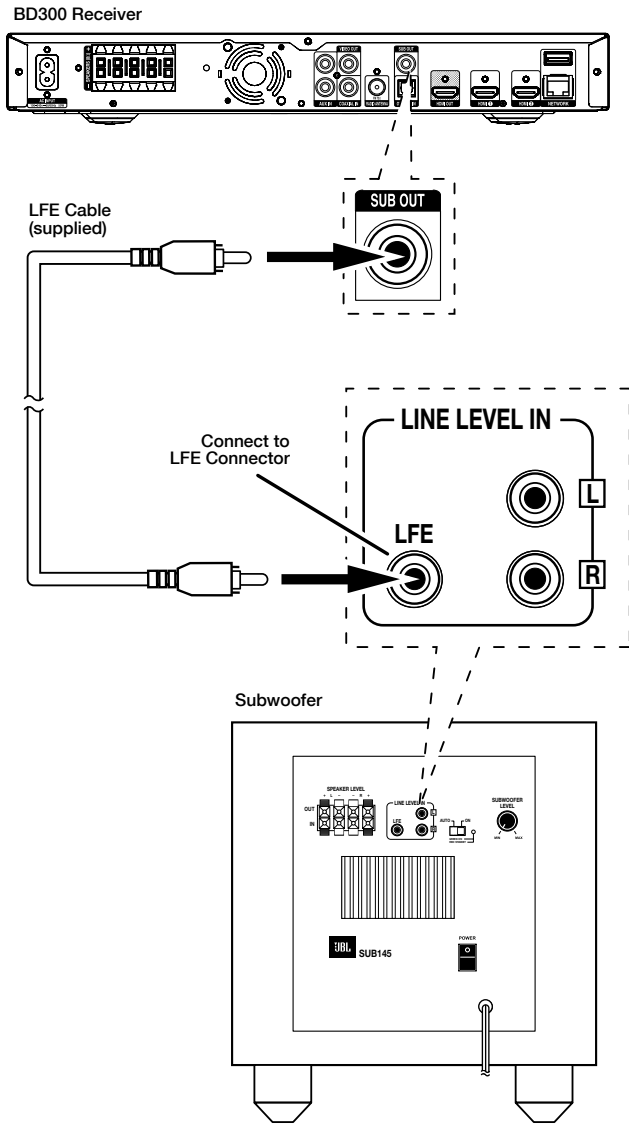
The BD300 system's speakers use red to denote the (+) terminal and black for the (-) terminal. Be sure to connect all the speakers identically: red (+) on the speaker to the colored (+) terminal on the receiver and black (-) on the speaker to the black (-) terminal on the receiver. Wiring one or more speakers incorrectly results in thin sound, weak bass and poor surround-sound envelopment.



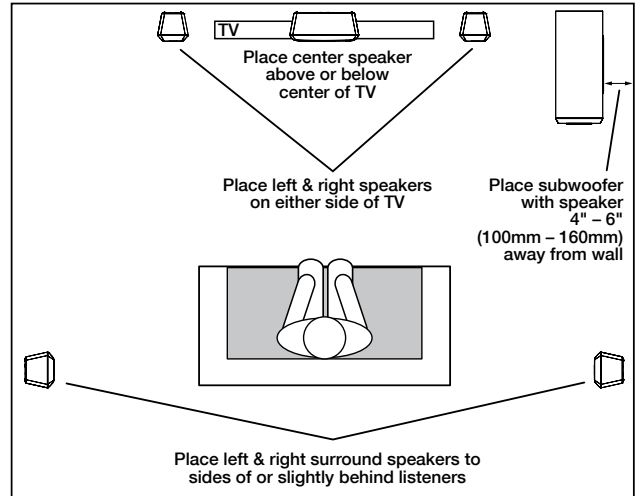
**IMPORTANT:** Make sure the (+) and (-) bare wires do not touch each other or any metal object on the receiver's rear panel. Touching wires can cause a short circuit that can damage the BD300 receiver.

### CONNECT THE POWERED SUBWOOFER (BD300 ONLY)

Use the supplied subwoofer LFE cable to connect the BD300 receiver's Subwoofer Output connector to the powered subwoofer's LFE input.

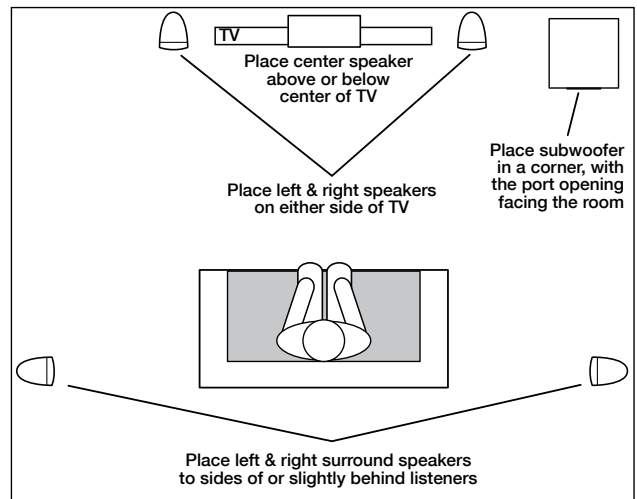


### PLACING THE SPEAKERS: CINEMA BD100 SYSTEM

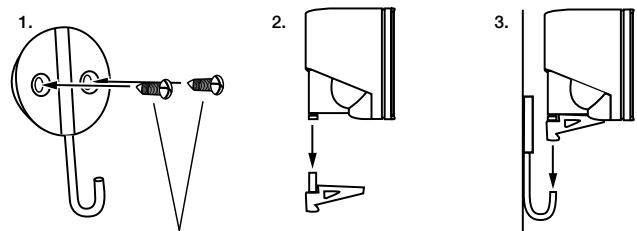


- You can mount the left, right, center and surround speakers on the wall using picture-hanger hardware.
- Placing the subwoofer with its speaker 4" - 6" (100mm - 160mm) from a wall maximizes bass performance and helps protect the exposed speaker unit from accidental damage.

### PLACING THE SPEAKERS: CINEMA BD300 SYSTEM



- Placing the subwoofer in a corner will maximize its bass performance.
- You can mount the satellite (left, right, surround) speakers on the wall using the supplied wall-mount brackets.

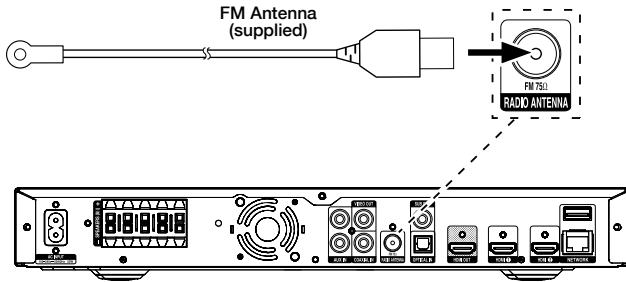


Hardware must be appropriate for wall material and construction

Refer to the instruction manual included in the speaker box for more information about using the supplied wall-mount brackets.

### CONNECTING THE FM ANTENNA

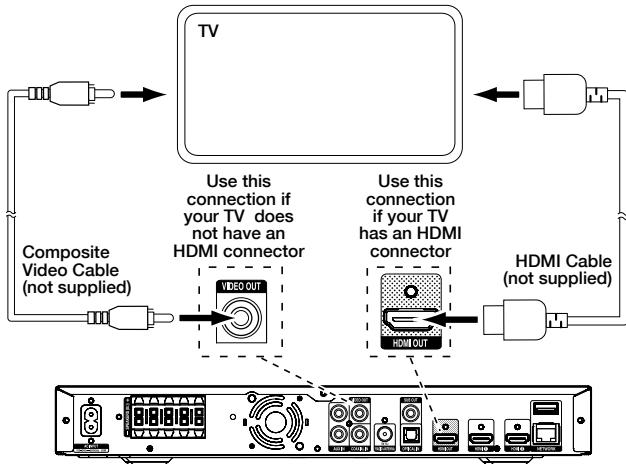
Connect the supplied antenna to the FM Antenna connector, as shown in the illustration below. Fully extend the antenna wire and move it to different positions until you get the best reception for your favorite stations.



### CONNECTING A TV OR VIDEO DISPLAY

Use an HDMI cable (not supplied) to connect the receiver's HDMI output to your TV/video display's HDMI input.

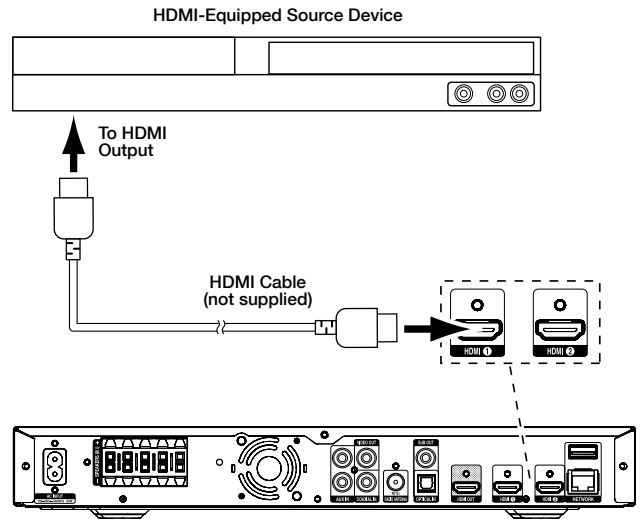
NOTE: If you have devices (such as an Internet modem) already connected directly to your TV, you can feed their sound to the receiver via the HDMI Monitor Out connector's Audio Return Channel, and they will not require additional connections to the receiver.



NOTE: The HDMI connection will deliver both video and audio to your TV or video display. We suggest disabling your TV or video display's audio system to take full advantage of your Cinema BD system's superior audio reproduction.

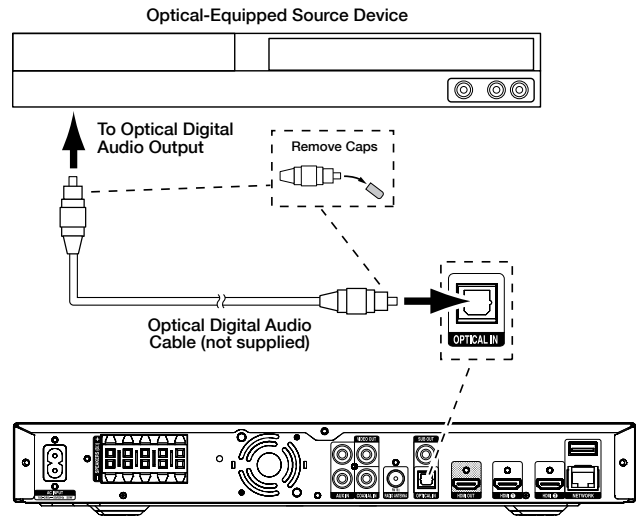
### CONNECTING YOUR HDMI SOURCE DEVICES (BD300 ONLY)

If you have any source devices with HDMI connectors, using them will provide the best possible video and audio performance quality. Since the HDMI cable carries both digital video and digital audio signals, you do not have to make any additional audio connections for devices you connect via an HDMI cable.



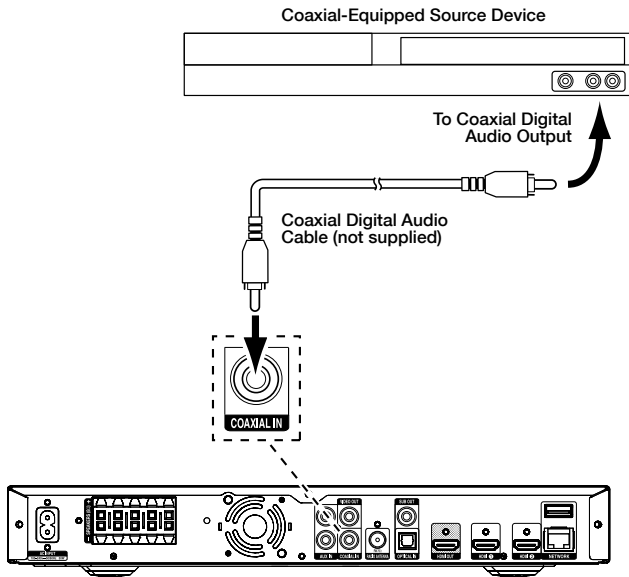
### CONNECTING YOUR OPTICAL DIGITAL AUDIO SOURCE DEVICES

If one of your non-HDMI source devices has an optical digital output, connect it to the receiver's Optical Digital Input connector. NOTE: Make only one type of digital connection (HDMI, optical or coaxial) from each device.



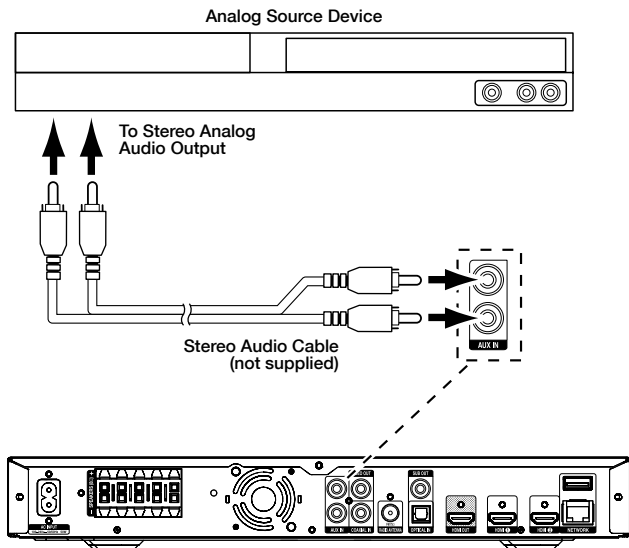
### CONNECTING YOUR COAXIAL DIGITAL AUDIO SOURCE DEVICE

If one of your non-HDMI source devices has a coaxial digital output, connect it to the receiver's Coaxial Digital Input connector. NOTE: Make only one type of digital connection (HDMI, optical or coaxial) from each device.



### CONNECTING YOUR ANALOG AUDIO SOURCE DEVICES

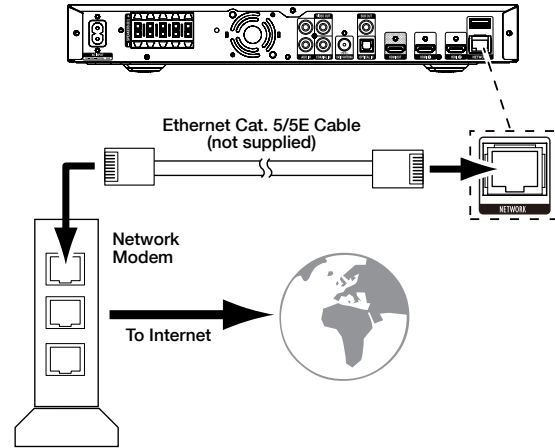
Use the receiver's Aux In connectors for a source device that doesn't have an HDMI or digital connector.



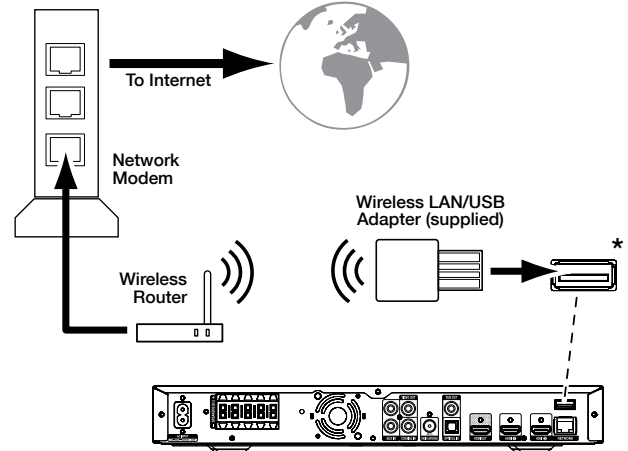
### CONNECTING TO YOUR HOME NETWORK

Use a Cat. 5/5E Ethernet cable (not supplied) to connect the BD receiver's Network connector directly to your home network router, network switch, network modem or Ethernet network wall jack that has Internet access. See *Network*, on page 17, for information about joining the BD receiver with your home network.

#### WIRED NETWORK



#### WI-FI® NETWORK (BD300 ONLY)



\*Insert Wireless LAN/USB adapter only in rear-panel USB port

- Insert the Wireless LAN/USB adapter with its metal contacts facing UP.
- Do not insert the supplied Wireless LAN/USB Adapter into the receiver's front-panel USB port. It will work only when inserted into the rear-panel USB Network port.
- Do not insert a USB memory stick or similar device into the rear-panel USB Network port. The port will work only with a USB network adapter like the one supplied with the receiver.

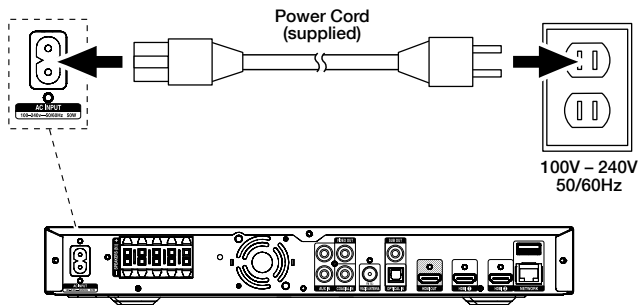
## CONNECTING THE AC POWER

The receiver comes with a detachable AC power cord. This type of cord makes it easier for you to install and connect all other system wiring to the receiver's rear panel.

### NOTES:

- The power requirement for the BD100 and BD300 receivers is 100V – 240V AC, 50/60Hz, 50W. Connecting to a power source other than the one listed may damage the receiver or cause abnormal operation.
- Before connecting the AC power cord to a wall outlet, confirm that you have correctly made all of the speaker connections, video connections and audio-component connections.

Connect the female end of the receiver's detachable power cord to the receiver's AC Power connector. Plug the other end into a working, *unswitched* AC outlet.



**BD300 only:** Plug the subwoofer's power cord into an active, unswitched AC wall outlet.

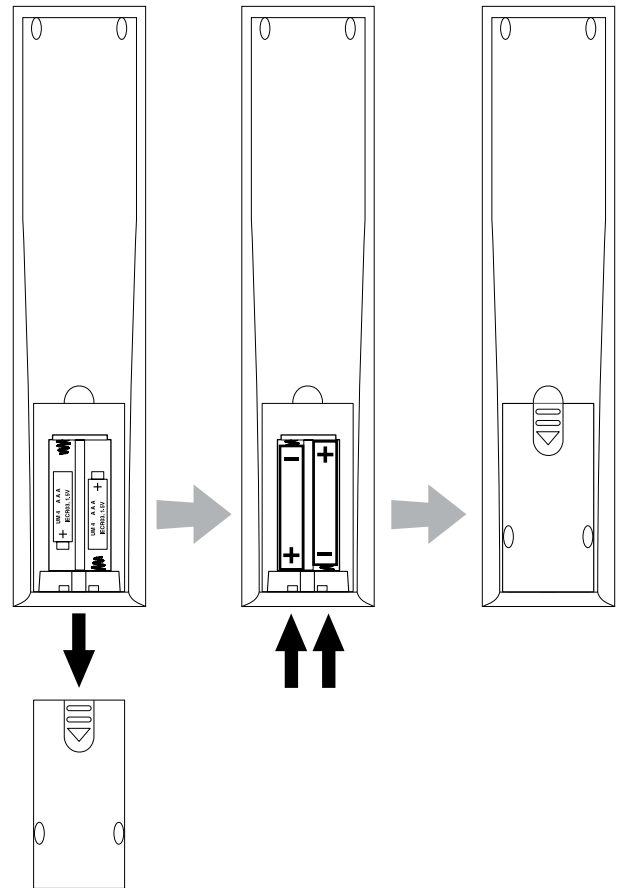
- If you set the subwoofer's Auto/On switch in the "Auto" position, the subwoofer will automatically turn on when it senses an audio signal at its input connection. The subwoofer will automatically enter the Standby mode approximately 20 minutes after the input signal ceases.
- If you set the Auto/On switch in the "On" position, the subwoofer will turn on when the Power switch is in the "On" position and will turn off when the Power switch is in the "Off" position.
- If you will not be using the subwoofer for an extended period of time, such as a vacation, we recommend setting the Power switch to "Off."

Press the receiver's front-panel Power button or the Power button on the remote control. The front-panel information display will display the legend "JBL." The receiver is now ready for use.

## PREPARING THE REMOTE CONTROL

### INSTALLING THE BATTERIES

Your receiver's remote control uses AAA batteries (supplied). Insert the batteries as shown in the illustration, making sure to observe the correct polarity.



### USING THE REMOTE

When using the remote, remember to aim it toward the receiver's front panel. Make sure that no objects, such as furniture, block the remote's view of the receiver. Bright lights, fluorescent lights and plasma-video displays may interfere with the function of the remote.

- The remote has a range of about 20 feet (6.1m), depending on the lighting conditions.
- You can use the remote at an angle of up to 30° to either side of the BD receiver.

If the remote seems to operate intermittently, make sure that the batteries are inserted correctly. If the remote still operates intermittently, replace both batteries with new ones.

## SETTING UP THE RECEIVER

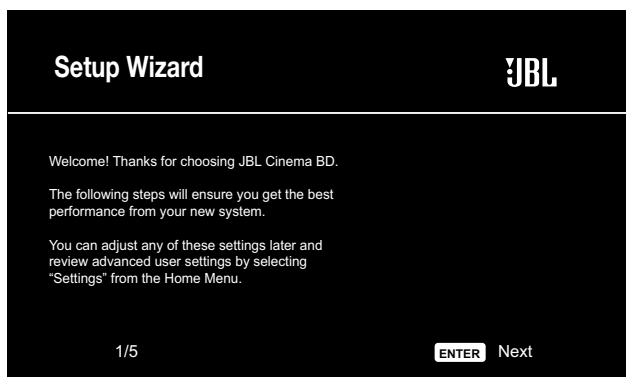
NOTE: The menu screens shown in this manual are for illustrative purposes and may differ somewhat from the actual displays.

To set up your Cinema BD receiver, you will use the remote to navigate through all of the on-screen menus and to make selections from them.

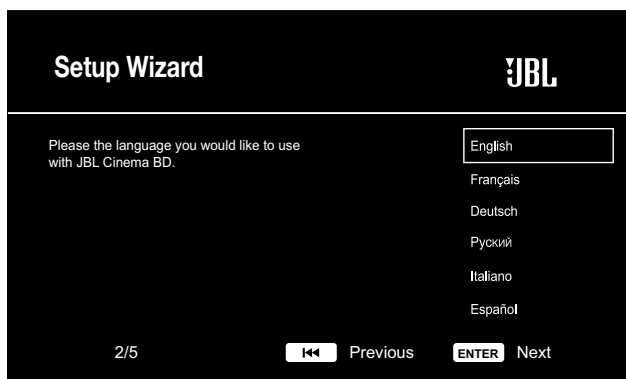
- Use the Cursor Up/Down buttons to navigate through the menu list. When an item is highlighted, a border will appear around it.
- To select a highlighted item, press the Enter button. The screen will change depending on your selection.
- To return to the previous screen, press the Clear/Exit button.

### INITIAL SETUP

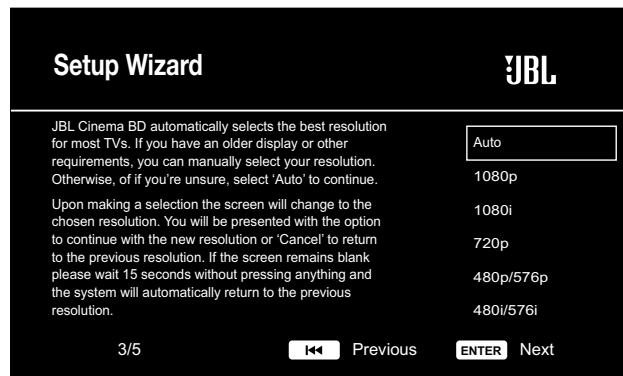
When you turn your Cinema BD receiver on for the first time, the on-screen menu will display the Setup Wizard screen.



Press the Enter button, and the second Setup Wizard screen will let you set the language you want the BD receiver to use for its on-screen menus.

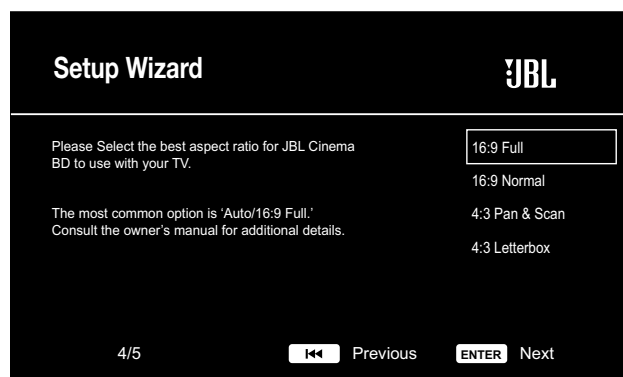


Press the Enter button and the TV-resolution screen will appear.



If you are unsure of your display's highest resolution, select "Auto," and the receiver will select the optimal resolution for you.

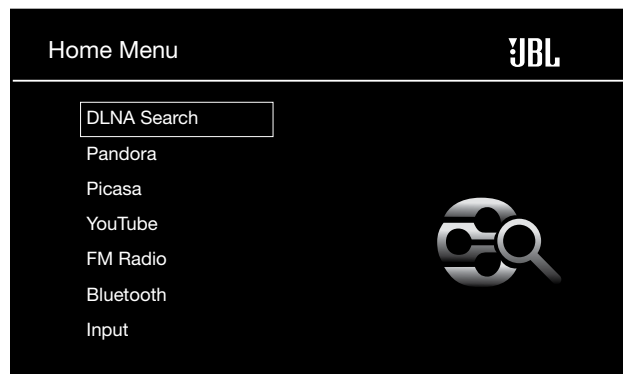
After selecting your TV's highest resolution, press the Enter button, and the TV aspect-ratio screen will appear.



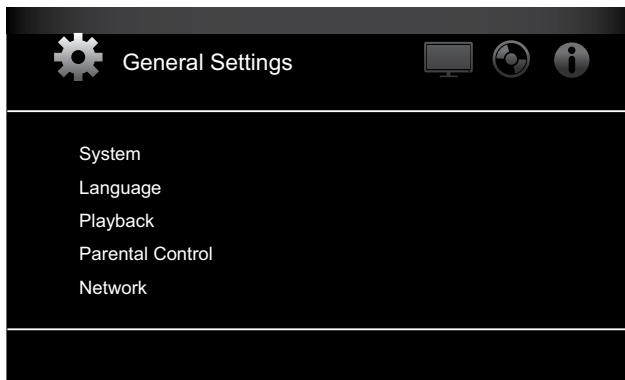
After selecting the aspect ratio that best fits your TV, press the Enter button to save your settings and then press it again to exit. This process completes the Setup Wizard for your Cinema BD receiver.

### SETTINGS MENU

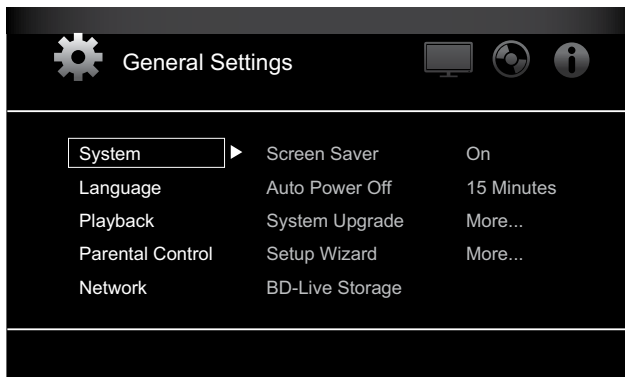
Press the Home button on the remote control to display the Home Menu screen. From here you can choose an audio or video source, and access the Settings menu that lets you set up the Cinema BD receiver's various functions. Note: Not all of these selections will be available in your country. (For example, Pandora is available only in the US.)



To access the General Settings menu, scroll down through the Home Menu screen's various options using the Cursor Down button until you reach the Settings menu, and press the Enter button. (You can also access this menu directly by pressing the remote's Setup button.)



Scroll down to access the additional menu options.



## GENERAL SETTINGS

Use the remote's Cursor Left/Right buttons to move from one menu to another, and use the Cursor Up/Down buttons to navigate through the lists that appear on the various screens. Then press the Enter button to select highlighted items. Press the Clear/Exit button at any time to return to the previous screen.

**System:** The System option lets you set the following system features:

**Screen Saver:** This option sets the on-screen display's screen saver to either On or Off.

**Auto Power Off:** This option changes the time after which the receiver will automatically enter the Off mode if there is no playback or remote-control activity. The settings are Never, 15 Minutes, 30 Minutes, 1 Hour and 2 Hours.

**System Upgrade:** Select this option when you want to install a firmware upgrade for your BD receiver that you've downloaded from a JBL Web site or other JBL source. Such an upgrade can be performed via a USB memory stick, the Internet (through the BD receiver's Network connection) or via a CD-ROM disc. NOTE: We recommend using a USB memory stick or the Internet connection whenever possible, since upgrading via a CD-ROM disc takes several times longer.

**Setup Wizard:** Selecting this option takes you to the Initial Setup process. See *Initial Setup*, on page 15.

**BD-Live Storage:** When you select the BD-Live features from a Blu-ray disc's menu, you may be able to download additional content or other information via the Internet (through the BD receiver's Network connection) and onto a memory device inserted into the receiver's front-panel USB port. This option lets you see how much space is available on the memory device and lets you delete previously stored BD-Live content from the device. (See *BD-Live Interactivity*, on page 22, for more details.)

**CEC:** When this option is set to "On," pressing the Play button on the BD receiver when a Blu-ray disc or DVD is inserted will automatically turn on a TV connected via HDMI technology and switch it to the input to which the BD receiver is connected. Also, putting the connected TV into the Standby mode will automatically place your Cinema BD receiver into the Standby mode. NOTE: The connected TV must support HDMI CEC (Consumer Electronics Control).

**Bluetooth State:** The BD receiver will automatically enter and remain in the *Bluetooth* pairing mode until you pair it with a *Bluetooth* device, which can then stream audio content to the BDS receiver. Select "Force Pairing" to drop a currently paired *Bluetooth* device and force the receiver to enter the pairing mode so you can pair it with a new device.

**Bluetooth Break-in:**

- **Allow:** An audio signal streaming from a paired *Bluetooth* device will interrupt the audio currently playing through the BD receiver, and the receiver will automatically switch to the *Bluetooth* input.
- **Don't Allow:** When a paired *Bluetooth* device begins streaming an audio signal, the BD receiver will not switch to the *Bluetooth* input and will continue playing audio from the current source.

**Restore Defaults:** This option restores the receiver to its factory-default setting values. NOTE: This procedure deletes all preset FM-station settings and restores the parental-control password back to the factory default of 0000.

### Language:

**OSD:** This option lets you set the language for the BD receiver's OSD (on-screen display).

**Menu:** This option lets you select the default language for Blu-ray Disc or DVD disc menus. NOTE: If the selected language is unavailable on the particular disc being played, select a language using the disc's menu.

**Audio:** This option lets you set the default audio language for Blu-ray Disc or DVD discs. NOTE: If the selected language is unavailable on the particular disc being played, select a language using the disc's menu.

**Subtitle:** This option lets you set the default subtitle language for Blu-ray Disc or DVD discs. NOTE: If the selected language is unavailable on the particular disc being played, select a language using the disc's menu.

**Playback:** The Playback option allows you to set the following disc playback features:

**Show Angle Icon:** This option lets you select whether or not the angle icon will be displayed automatically when a disc with multiple camera angles is played.

**Auto Play:** This option lets you select whether discs will automatically begin playing when they are inserted into the BD receiver's disc player.

**Show PIP Icon:** This option lets you select whether or not the picture-in-picture (PIP) icon will be displayed automatically when a Blu-ray Disc recording with PIP content is played.

**Secondary Audio Icon:** This option lets you select whether or not the secondary audio icon will automatically be displayed when a Blu-ray Disc recording with secondary audio content is played.

**Disc Resume:** This option lets you select whether or not a disc that has been ejected while playing will resume play from that location when it is later re-inserted into the BD receiver's disc player.

**PBC:** This option lets you turn the PlayBack Control option for VCD discs on and off.

**DivX® VOD DRM:** This option displays your receiver's DivX Video-On-Demand Digital Rights Management registration information.



**Parental Control:** This option lets you set the receiver's parental-control password and the level of parental control you want active.

*Change Password:* Use the remote control's number buttons to enter a new or existing password. NOTE: The default password is 0000.

*Parental Control Level:* Use the remote control's number buttons to enter the existing password, and then, using the Cursor Up/Down buttons, select the desired level of parent control, including Off, Kid Safe, G, PG, PG-13, PGR, R, NC-17 and Adult. NOTE: The default password is 0000.

**Network:** This option allows you to set the following network features:

*Information:* This option displays your network's current IP address, subnet mask, gateway and DNS addresses.

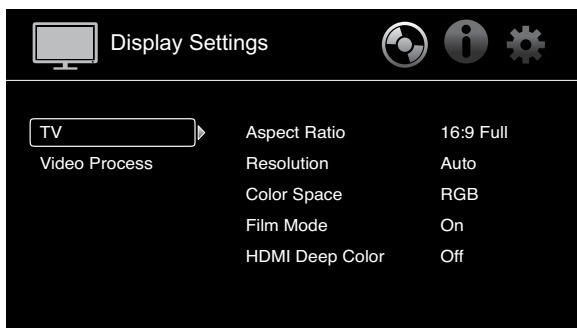
*Test Connection:* This option tests for a working network connection to the Cinema BD receiver.

*IP Configuration:* This option lets you enter your network settings, either automatically or manually. Unless your network administrator instructs you otherwise, you should use the "Auto" option.

*BD-Live Connection:* This option lets you set the receiver's BD-Live connection preferences. "Always Allow" lets you download BD-Live content whenever a disc with BD-Live content is played. "Limit" allows downloading only if the disc is officially BD-Live certified. "Prohibited" does not allow any BD-Live access.

*Proxy Setting:* This option lets you select the receiver's proxy network setting. "Disabled" bypasses any proxy host and proxy port settings and prevents their selection. "Enabled" lets you to select and set the proxy host and proxy port settings if your network requires a proxy setting. This option is for advanced users only and, in most cases, should be left set to "Disabled."

## DISPLAY SETTINGS



**TV:** This option allows you to set the following display parameters:

*Aspect Ratio:* This option lets you select how you want 4:3 programs to be displayed on a 16:9 wide-screen TV or 16:9 programs displayed on a 4:3 TV.

- "16:9 Full" stretches 4:3 material to fill a 16:9 TV screen.
- "16:9 Normal" displays 4:3 material on a 16:9 TV with black boxes on either side of the picture (called "windowboxing"), thereby preserving the program's original visual composition without distortion.
- "4:3 Pan & Scan" zooms in on widescreen material to fill a 4:3 screen.
- "4:3 Letterbox" displays 16:9 material with black bars above and below the picture, preserving the program's original visual composition without distortion.

*Resolution:* This option lets you select your TV's highest resolution. "Auto" automatically selects the best resolution for your TV or flat-screen display.

*Color Space:* This option lets you match the receiver's video output to the color space of the connected TV or video display. Check the documentation for your TV or video display to determine which color space – RGB, YUV, VCbCr422 or Full RGB – it uses.

*Film Mode:* If your TV can handle a 1080p 24Hz signal (if it has 1080 resolution and a video-refresh rate that is a whole-number multiple of 24), set Film Mode to "On" to get maximum resolution from Blu-ray Disc content mastered at 24 frames per second. If your display cannot handle a 1080p/24Hz signal, set this option to "Off," and the BD receiver will upconvert 24-frame-per-second film material to the standard video 30Hz refresh rate.

*HDMI Deep Color:* This option allows you to adjust the resolution of color output to your TV. If your TV accepts Deep Color, this option allows your TV to display an enhanced color palette.

- On: The receiver outputs 36-bit Deep Color if your TV supports it. If your TV does not support 36-bit Deep Color, the receiver will output 30-bit color.
- Off: The receiver does not output Deep Color (color resolution remains at 24 bits).

*TV Standard:* This option allows you to set the BD receiver to match your area's television standard. Select NTSC for the USA and Canada, or PAL for most of Europe. Select "Auto" to allow the receiver to match the standard of the connected TV automatically.

NOTE: If you use the "Auto" setting, the receiver may skip the first two seconds of PAL DivX content while it switches to the PAL mode. To avoid this, use the PAL setting.

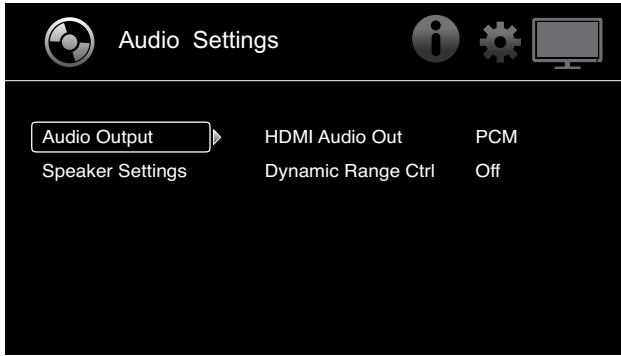
*HDMI 3D:* This option lets you determine how the receiver will handle HDMI 3D content. If you have connected the receiver to a 3D-capable TV, select "Auto" to allow the receiver to play 3D content in 3D automatically. If you have connected the receiver to a TV that is not 3D-capable, select "Off" to play 3D content in 2D.

**Video Processing:** This option allows you to set the Cinema BD receiver's internal video processing.

*Video Mode:* This setting lets you select a preset video-processing option to optimize the picture for the program currently playing by adjusting the brightness, contrast, color and sharpness:

- Standard: Neutral control settings.
- Vivid: For video games.
- Cinema: For movies and many television broadcasts.
- Custom: This option lets you adjust the picture settings manually. The Brightness, Saturation (color saturation), Hue, Contrast, Sharpness and CTI (color transient improvement) settings appear as sliders. The default setting for each adjustment is 0. Use the Cursor Left/Right buttons to change each setting's value.
- Internet Video: For viewing streaming content via the Internet.

## AUDIO SETTINGS



These settings let you adjust the various parameters that control the audio output to the Cinema BD system's 5.1-channel speaker system.

**Audio Output:** This option lets you set the following items:

*HDMI Audio Out:* In addition to digital video signals, the BD receiver's HDMI Monitor Out connection also carries digital audio signals.

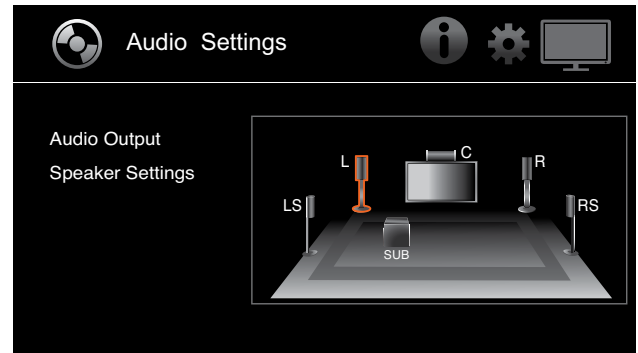
- **PCM:** This option outputs a two-channel downmix (derived from the program's native audio format) via the HDMI output.
- **Off:** This option turns off the receiver's HDMI audio output. We recommend selecting this option so you can take full advantage of the superior audio capability of your Cinema BD system.

*Dynamic Range Control:* This setting makes the loud and quiet parts of music or a movie sound closer to the same volume – a process known as compression. Compression lets you turn up the volume so you can hear the quiet parts without the loud parts disturbing other people. **NOTE:** This feature works only with Dolby Digital programs that have been specially encoded. Three settings are available:

- **Off:** This setting never applies compression. Use this setting when the volume may be as loud as you desire.
- **On:** This setting always applies compression. Use this setting when you want the volume to be as quiet as possible without making it difficult to hear spoken dialogue.
- **Auto:** This setting applies compression based on information encoded within the Dolby Digital bitstream. The receiver will selectively apply compression only during the most dynamic parts of the soundtrack.

**Speaker Settings:** This option lets you set the following items:

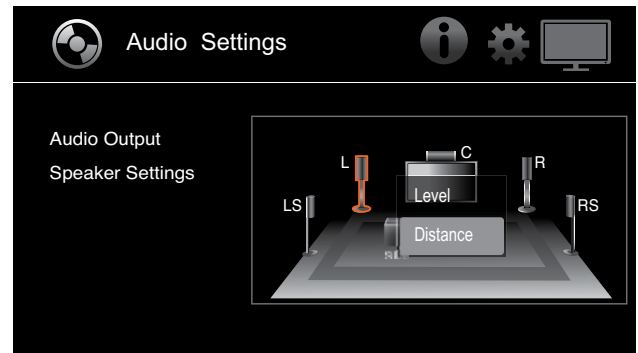
*Test Tone:* This setting outputs test noise through each of the loudspeaker channels in the following order: Left (L), Center (C), Right (R), Right-Surround (RS), Left-Surround (LS) and Subwoofer (SUB). Use the setting to check that each loudspeaker is connected properly to the Cinema BD receiver and to set the distances to the speakers.



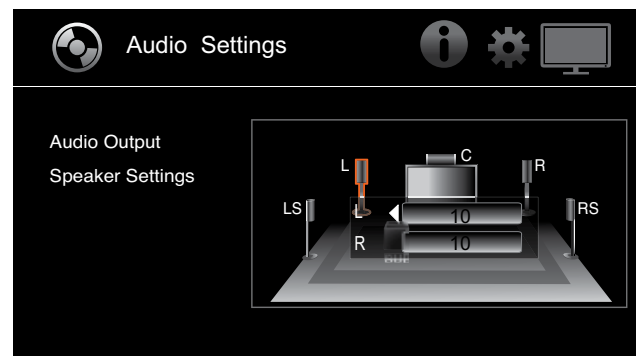
**IMPORTANT:** If you have not yet set the speaker distances as described in the Quick-Start Guide that was included in the box with your Cinema BD system, you should use this screen to do so now.

To set the speaker distances:

1. First, measure the distance from the listening position to each of your system's speakers, except the subwoofer. Write down these distances.
2. Press the Enter button when the speaker you want to adjust is playing the test noise and is highlighted on the menu screen. The Level and Distance adjustment selections for that speaker will appear.



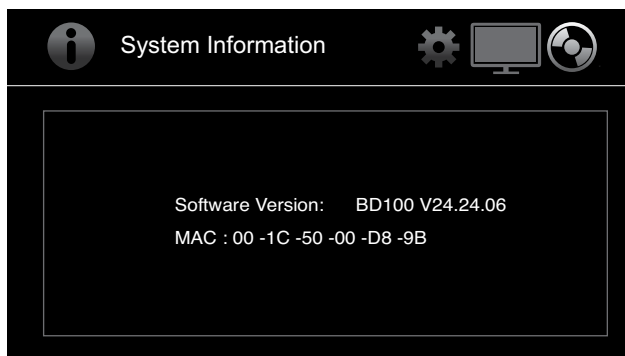
3. Press the Cursor Down button to highlight Distance, and press the Enter button to select it. The speaker's distance-adjustment bars will appear. (Note: You do not need to adjust the individual speaker volume levels at this time.)



4. Use the Cursor Left and Cursor Right buttons to set the distance you measured for the speaker. (The arrowheads indicate which speaker is being adjusted.) The distances are in meters. Each .3 meters equals 1 foot.
5. Press the "Clear/Exit" button twice to return to the speaker-setup screen and select the next speaker distance to be adjusted.
6. Repeat steps 2 – 5 for each speaker until you have adjusted the distance to all the loudspeakers in your 5.1-channel speaker system (except the subwoofer).
7. After you have entered all the distances, press the "Clear/Exit" button to return to the Level screen.

NOTE: Leave all the speaker levels set at "0" for now. You will be able to adjust the individual speaker levels once your system is set up and you're playing music or films. See *Adjusting Individual Speaker Volumes*, on page 20.

## INFORMATION MENU



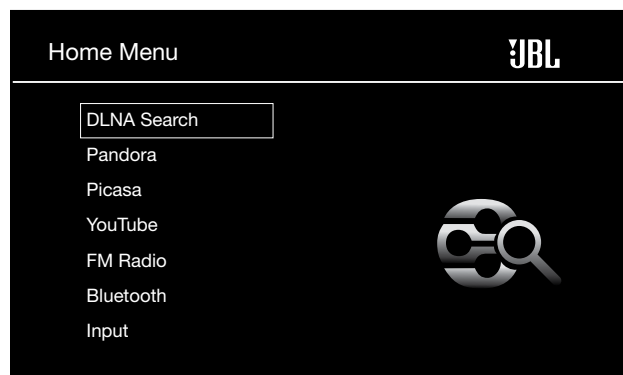
The Information menu will display the receiver's software/firmware version number and the receiver's factory-assigned network MAC address. This screen is for information only and has no user adjustments.

## USING THE RECEIVER

NOTE: Before using your new BD receiver, be sure to set the speaker distances, as explained in *Audio Settings: Speaker Settings*, on page 18.

### HOME MENU

Press the Home button to display the Home Menu screen:

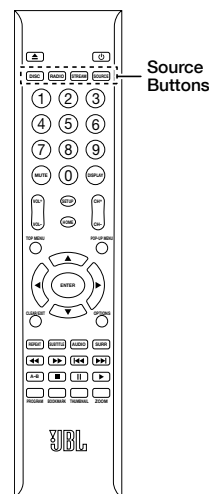


The available sources are listed on the left.

If a disc has been inserted into the receiver's built-in disc slot, it will appear on the list as either "CDDA" (CD), "DVD Video" (DVD) or "Blu-ray Disc." If you have inserted a USB device into the receiver's USB port, it will appear on the list as "USB."

Digital and analog audio sources connected to the receiver's rear-panel digital and line inputs can be accessed by selecting "Input" from the source list (see *Listening to Audio Sources*, on page 24).

To select a source from the list, use the Cursor Up/Down buttons to highlight the desired source, then press the Enter button to select it. You can also select sources by pressing the four Source buttons on the remote.



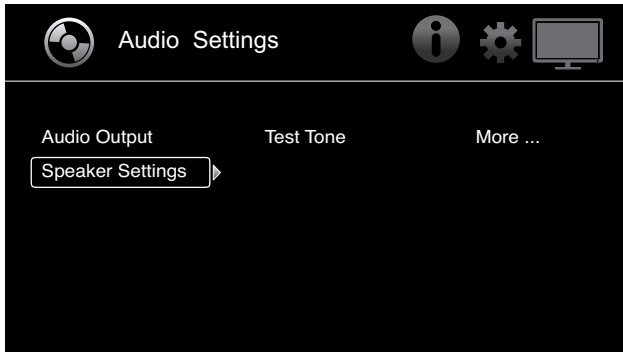
- Disc: Selects the receiver's built-in disc player.
- Radio: Selects the receiver's built-in FM tuner.
- Stream: The first press of this button selects the last-used source among the following: *Bluetooth*, YouTube, Picasa, Pandora, DLNA. Subsequent presses advance through the sources in order. (Note: YouTube, Picasa and Pandora streaming services are region-dependent.)
- Source: The first press of this button selects the last used digital or analog source connected to the receiver's rear-panel optical, coaxial, HDMI ARC, HDMI 1 (BD300 only), HDMI 2 (BD300 only) and Aux inputs. Subsequent presses advance through the inputs in order.

To use the Playlist function, see *Using Playlists*, on page 27.

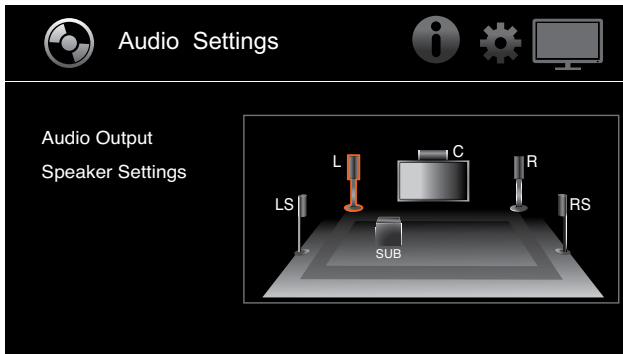
## ADJUSTING INDIVIDUAL SPEAKER VOLUMES

You can adjust the volumes of the system's individual speakers while you're listening to audio playback sources.

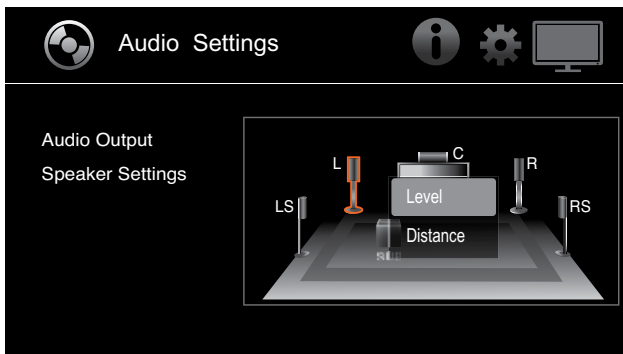
1. Press the Setup button and use the Cursor Right button to select Audio Settings.



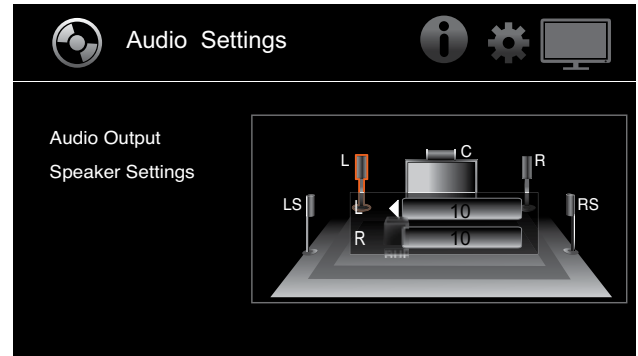
2. Use the Cursor Down button to select "Speaker Settings" and then press Cursor Right to select "Test Tone" and again to select "More."



3. The BD receiver will now output test noise through each of the loudspeakers in the following order: Left (L), Center (C), Right (R), Right Surround (RS), Left Surround (LS) and Subwoofer (SUB).
4. Press Enter when the loudspeaker you want to adjust is highlighted. The Level/Distance selections will appear.



5. Press Enter to adjust the level of the speaker.



6. Use the Cursor Left and Cursor Right buttons to change the speaker's volume level.
7. Press Enter to store the modified settings in the BD receiver's memory; press Clear/Exit twice to return to the previous screen and select another speaker channel.
8. Press Setup or Home to exit from the Level Setup screens.

### Notes on Setting Speaker Volumes in 5.1-Channel Systems:

While setting your system's individual speaker volume levels is ultimately up to your personal taste, here are some ideas you may find helpful:

- For films and video-music programs, your overall goal should be to create an enveloping, realistic sound field that draws you into the film or music program without drawing your attention away from the action on the screen.
- For multichannel music recordings, some music producers will create a sound field that places the musicians all around you; others will create a sound field that places the musicians in front of you, with more subtle ambience in the surround speakers (as you would experience in a concert hall).
- In most 5.1-channel films, the surround channels are not intended to be as loud or as active as the front channels. Adjusting the surround speakers so they are always as loud as the front channels could make dialogue difficult to understand and will make some sound effects sound unrealistically loud.

### Notes on Setting Subwoofer Volume:

- Sometimes the ideal subwoofer volume setting for music is too loud for films, while the ideal setting for films is too quiet for music. When setting the subwoofer volume, listen to both music and films with strong bass content, and find a "middle ground" volume level that works for both.
- If your subwoofer always seems too loud or too quiet, you may want to place it in a different location. Placing the subwoofer in a corner will always tend to increase its bass output, while placing it away from any walls or corners will always tend to lessen its bass output.

**IMPORTANT: Do not turn the receiver's volume up to or past the point where the audio from the speakers becomes distorted. Doing so can damage the speakers.**

## SURROUND-SOUND MODES

Your receiver can decode and play audio programs in these native audio formats:

- Dolby Digital
- Dolby Digital Plus
- Dolby TrueHD
- DTS Digital
- PCM
- MP3: 32kbps – 320kbps bitrates, including variable bitrate encoding

The audio formats available for any particular program depend on the program:

### AVAILABLE AUDIO FORMATS

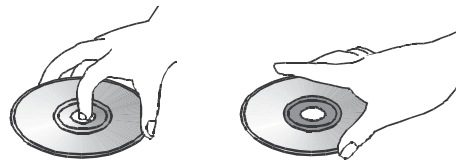
	2.0- and 2.1- Channel Setup Configuration	3.1-Channel Setup Configuration	5.1-Channel Setup Configuration
<b>2.1-Channel Programs</b>	Dolby Virtual Speaker Wide (default)/ Dolby Virtual Speaker Reference/ Stereo	Original (default)/ Dolby PLII Movie/ Dolby PLII Music/ Dolby Virtual Speaker Wide/ Dolby Virtual Speaker Reference/ Stereo	Original (default)/ Dolby PLII Movie/ Dolby PLII Music/ Dolby Virtual Speaker Wide/ Dolby Virtual Speaker Reference/ Stereo
<b>3.1-Channel Programs</b>	Dolby Virtual Speaker Wide (default)/ Dolby Virtual Speaker Reference/ Stereo	Original (default)/ Dolby Virtual Speaker Wide/ Dolby Virtual Speaker Reference/ Stereo	Original (default)/ Dolby PLII Movie/ Dolby PLII Music/ Dolby Virtual Speaker Wide/ Dolby Virtual Speaker Reference/ Stereo
<b>4.1-/5.1-/6.1- Channel Programs</b>	Dolby Virtual Speaker Wide (default)/ Dolby Virtual Speaker Reference/ Stereo	Dolby Virtual Speaker Wide (default)/ Dolby Virtual Speaker Reference/ Stereo	Original (default)/ Dolby Virtual Speaker Wide/ Dolby Virtual Speaker Reference/ Stereo

To switch among the available surround-sound modes for the program currently playing, press the Surround button. Each press of the Surround button will change to the next available mode in line. A pop-up display will appear on the TV, showing the modes as you cycle through them.

## USING THE DISC PLAYER

### DISC-HANDLING PRECAUTIONS

- To keep the disc clean, handle the disc by its edge. Do not touch the surface.



- Do not stick paper or tape on the disc. If there is glue (or a similar substance) on the disc, remove the substance completely before using the disc.
- Do not expose the disc to direct sunlight or heat sources such as hot-air ducts or leave it in a car parked in direct sunlight, as there can be a considerable rise in temperature inside the car.
- After playing, store the disc in its case.
- Do not write on the label side with a ball-point pen or other sharp writing utensils.
- Be careful not to drop or bend the disc.

### DISC-CLEANING PRECAUTIONS

- Before playing, clean the disc with a cleaning cloth. Wipe the disc from the center out.
- Do not use solvents such as benzene, thinner, commercially available cleaners or anti-static spray intended for vinyl LPs.

### REGIONAL CODING

Your BD receiver is designed to be compatible with region-management information that is encoded on most Blu-ray Disc recordings and DVD recordings. If there is a region code on a disc other than the one your receiver is designed for, it will not play in your BD receiver.

See the sidebar box on page 2 for complete information about your receiver's region coding.

### COPYRIGHT

Audio-visual material may consist of copyrighted works that must not be recorded without the permission of the owner of the copyright. Please refer to relevant laws covering copyright protection.

### COPY PROTECTION

Your BD receiver is in compliance with HDCP (High-Definition Copy Protection), and a video display connected via the HDMI Monitor Out connector must also be HDCP-compliant.

The BD receiver supports Rovi™ copy protection. On Blu-ray Disc recordings and DVD discs that include a copy-protection code, if the contents of the disc are copied using a VCR, the copy-protection code prevents a videotape copy from playing normally.

### SUPPORTED DISC FORMATS

The BD receiver can play the following types of discs (5"/12cm and 3"/8cm size):

- BD-Video (single-layer or double-layer)
- DVD-Video
- DVD+R/+RW
- DVD-R/-RW
- CDDA (CD digital audio)
- CD-R/RW

NOTE: The compatibility and performance of dual-layer discs is not guaranteed.

## SUPPORTED MEDIA CODECS

The BD receiver can play media recorded in the following audio/video codecs:

- MPEG 2
- H.264
- VC-1
- MP3 (from CD-R/RW, DVD+R/+RW, BD-R/RE and USB)
- JPEG (from CD-R/RW, DVD+R/+RW, BD-R/RE and USB)
- DivX 3.x/4.x/5.x (from CD-R/RW, DVD+R/+RW and USB)

NOTE: Due to differences in the formats of certain discs, some discs may include a mix of features, some of which are not compatible with the disc player. Similarly, although Blu-ray Disc recordings and DVDs are capable of a wide range of features, not every disc includes every capability of its system. For example, although the BD receiver is compatible with multi-angle discs, the multi-angle feature is possible only when the disc is specially encoded for multiple-angle play. To make certain that a specific feature or soundtrack option is available, please check the options noted on the disc jacket.

The playback capability of recordable discs may vary due to variations in the quality of the disc and the recorder used to create the disc.

## LOADING AND PLAYING A DISC

Hold the disc horizontally when loading it, and insert it gently into the Disc slot. The disc-loading mechanism will take the disc and slide it into the unit.

- Do not load more than one disc into the Disc slot.
- Do not load the disc upside down.

After loading a disc into the player, press the Play button to begin playback.

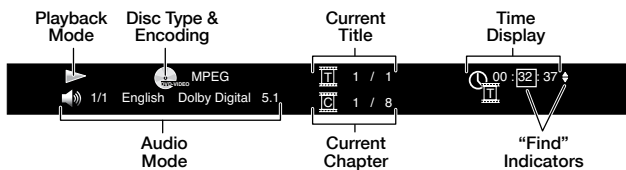
Use the Disc Transport Control buttons (Play, Pause, Stop, Prev/Step, Next/Step, Search Forward/Slow and Search Reverse/Slow) to control disc playback. See *Remote-Control Functions*, on page 8, for more information about the functions of these buttons.

## PLAYBACK FEATURES

**Repeat button:** When you are playing a Blu-ray Disc recording or DVD, pressing the Repeat button cycles through the following repeat modes: Chapter, Title, All, Off. When you are playing a CD, this button cycles through the following repeat modes: Track, All, Off.

**Options button:** Pressing the Options button displays any available options for the currently-playing disc. Blu-ray Disc options include title, chapter, time display, audio options, angle options, subtitle options, advance and replay. DVD options include title, chapter, time display, playback modes, audio options, angle options, advance and replay. Audio CD options include track selection, time display, playback modes, bitrate, instant search and instant replay.

**Display button:** When playing Blu-ray Disc recordings and DVDs, pressing the Display button toggles the information bar on and off.



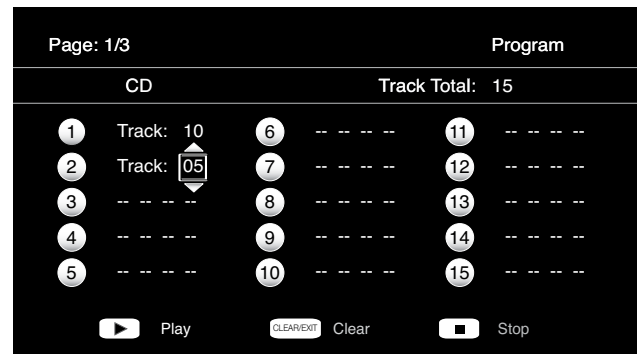
**Top Menu button:** Pressing this button displays the top menu for the Blu-ray Disc recording or DVD that is currently playing. NOTE: This feature is disc-dependent. Not all DVDs have top menus. If the DVD has no top menu, pressing the Top Menu button may display the disc menu, depending on how the disc's menu system was authored.

**Pop-Up button:** Pressing this button while playing a Blu-ray Disc recording displays the pop-up menu. (DVDs will display the disc menu.) Note: If the Blu-ray Disc recording does not support a pop-up menu, the disc menu will be displayed.

**Bookmark function:** The bookmark function lets you mark up to 12 locations on the disc currently playing. Press the Bookmark button to mark the current location on the disc. To clear a bookmarked location, press the Back button. To play the disc from one of your selected bookmark locations, hold the Bookmark button to display the bookmark list. Use the Navigation left/right buttons to select the desired bookmark, and press the Enter button to play the disc from that location. NOTE: The bookmark function is disc-dependent. Not all discs allow bookmark operation.

**Programmed play:** This option lets you create a programmed playlist for a disc. The program function works for CDs, DVDs and some Blu-ray Disc recordings (not all Blu-ray Disc recordings allow programmed play).

1. Press the Program button. The Program screen will appear.



2. Press the Enter button and use the Navigation Up/Down buttons to select the title on the disc (Blu-ray Disc/DVD) or track (CD) for your first program entry.

3. Press the right Navigation button and use the Navigation Up/Down buttons to select the chapter for your first program entry (Blu-ray Disc/DVD only).

4. Repeat Steps 2 – 3 for every entry in your programmed list.

5. When you're finished programming your list, press the Play button to play the list. Press the Next/Previous buttons to skip to the next or previous programmed item. NOTE: Pressing a number button during programmed play exits the programmed play mode and skips to the selected chapter or track.

The programmed list will remain active until the list has completed playing. Pressing the Stop button twice or ejecting the disc deletes the programmed list.

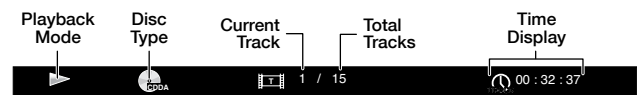
## BD-LIVE INTERACTIVITY

BD-Live interactivity is available on select Blu-ray Disc recordings. When you select the BD-Live features from a disc's menu, you may be able to download additional content or other information via the Internet (through the Network connection).

If you have difficulty accessing the Internet while using a BD-Live disc, press the Settings button and navigate to the Network Setup menu. Select "Test Connection." If the BD receiver is able to access the Internet, then the computer server the BD-Live disc is trying to access may be at fault. Check the disc jacket for more information or contact the content provider. If the "Test Connection" function fails, contact your Internet service provider (ISP) to obtain the correct settings for the BD receiver's IP Configuration menu. If the problem persists, contact your ISP for further assistance.

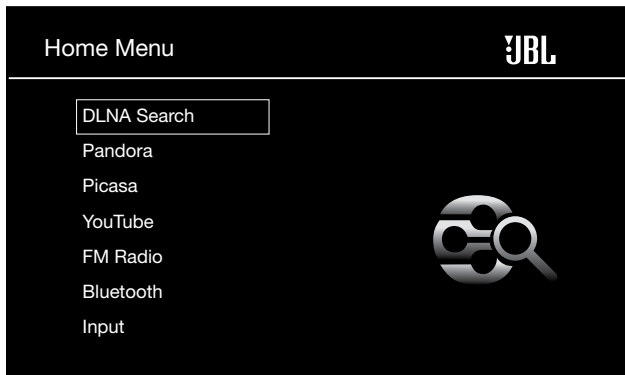
## PLAYING MUSIC CDS

When the BD receiver is playing a music CD, the top bar shows the current playback-mode icon, the type of disc, the track currently playing, the number of total tracks on the disc and the time display.



## PLAYING STREAMING MEDIA VIA YOUR HOME NETWORK

Your BD receiver lets you access media on other devices connected to your home network and enjoy media from on-line streaming services.



NOTE: The Pandora, Picasa and YouTube services are not available in all regions. Refer to the table below. If the service is not available in your region, it will not appear on the Home Menu input list shown above. (Refer to the list on page 2 to find your Blu-ray/DVD region.)

BLU-RAY/DVD REGION

Service	A/1	A/2	A/3	A/4	B/2	B/4	C/5	C/6
Pandora	Yes	No	No	No	No	No	No	No
Picasa	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No
YouTube	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No

**Digital Living Network Alliance (DLNA)** is a file-sharing protocol that creates a bridge between the BD receiver and other devices on the same network that contain audio and video media. DLNA file sharing is supported by PCs that support Windows Media® Player, Windows Media Center or Intel® Media Server file sharing. Apple computers can also share files via the DLNA protocol using HARMAN Music Manager software, which can be downloaded without charge from [www.jbl.com](http://www.jbl.com). (Third-party software that enables DLNA file sharing also is available.)

Before you can access files located on other devices via the DLNA protocol, each device must first give permission to share files with the BD receiver. To give file-sharing permission on a PC with Windows Media Player:

1. Open Windows Media Player.
2. Open the Library menu and select Media Sharing. The Media Sharing window will appear.
3. Check the "Share My Media" box. An icon for the BD receiver will appear in the window.
4. Select the Cinema BD icon, select "Allow," then select "OK."

The computer's WMA and MP3 media should now be available to the BD receiver. To share media from other types of computers, operating systems or media software, check the instructions for the computer, operating system or media player.

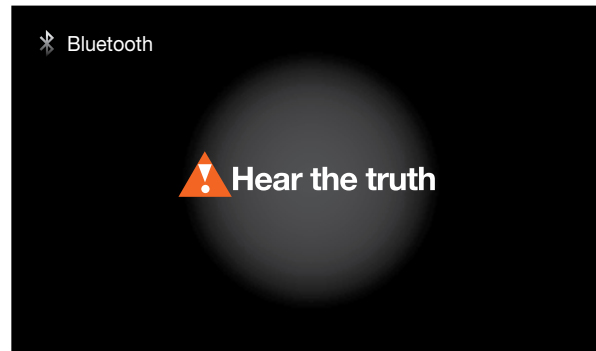
To determine which of your network devices allow DLNA media sharing, simply scroll through the BD receiver's Home Menu screen and select DLNA; the various network devices will be listed below the main title. Simply click on a device and if it allows file sharing, its file structure will be displayed, allowing you to find the available media.

NOTE: Your receiver is compatible with MP3 and WMA media; no other types of media can be played.

*Bluetooth* connectivity lets you stream audio wirelessly from a device that has been paired with the BD receiver.

- After you have paired the receiver with a *Bluetooth* device, you can select "*Bluetooth*" as the active source from the Home Menu screen.
- If you have set *Bluetooth Break-In* to "Allow" (see *Settings Menu > System > Bluetooth Break-In*, on page 16, for more information), at any time you begin playing media on a paired *Bluetooth* device the audio stream will automatically break in (the OSD will display a "*Bluetooth activated*" message) and interrupt the source that is currently playing through the receiver.

With both of the above methods, the *Bluetooth* screen will appear on the OSD.



Use the remote's Disc Transport Control buttons to control playback.

To terminate *Bluetooth* streaming and return to the previously playing source, press the remote's Stop button at any time while the *Bluetooth* screen is displayed.

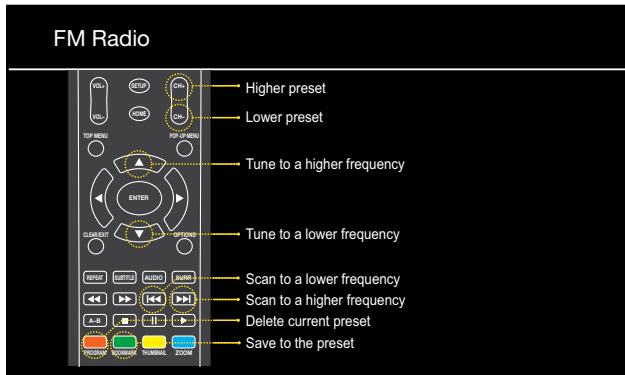
**Playing YouTube Media.** The Internet-based YouTube service lets you share videos with friends, family and the world.

**Displaying Picasa Media.** The cloud-based Google™ Picasa subscription service lets you organize, edit and share your digital images via the Internet and view them on your TV. NOTE: Before you can view content from Picasa, you first must set up an account with the service.

**Playing Pandora Music.** The free, personalized Pandora Internet radio service lets you access a wide cross-section of musical styles and tastes. NOTE: Before you can stream audio from Pandora, you first must set up an account with the service. The only Cinema BD systems that work with the Pandora service are the systems sold in the United States.

## LISTENING TO FM RADIO

Press the Radio button on the remote control or, if the Home Menu screen is displayed on the OSD, highlight "FM Radio" and press the Enter button. The Radio Now Playing screen will appear on the OSD, and the Cinema BD receiver's information display will show the currently tuned-in FM frequency.

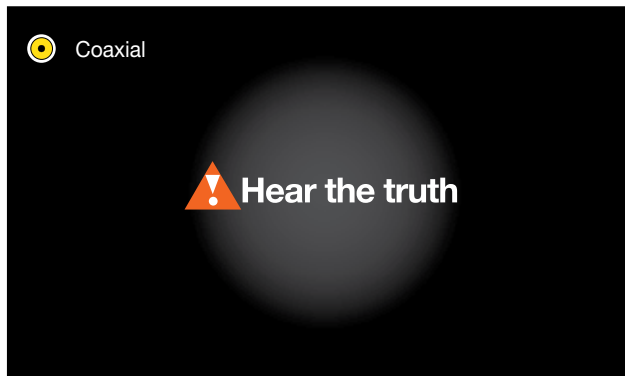


In addition to playing the radio through the receiver, pressing the Radio button places the remote in the radio-control mode, as shown on the Now Playing screen.

Pressing the Home button will switch the OSD to the Home Menu screen while the radio continues to be heard through the receiver. To display the Radio Now Playing screen again, press the Clear/Exit button.

## LISTENING TO AUDIO SOURCES

Press the Source button on the remote control. The receiver will switch to the audio input that was selected last. Subsequent presses of the Source button will advance through the audio inputs in the following order: Optical, Aux, Coaxial, HDMI ARC (Audio Return Channel), HDMI 1 (BD300 only) and HDMI 2 (BD300 only). The Audio Input Now Playing screen will appear on the TV.

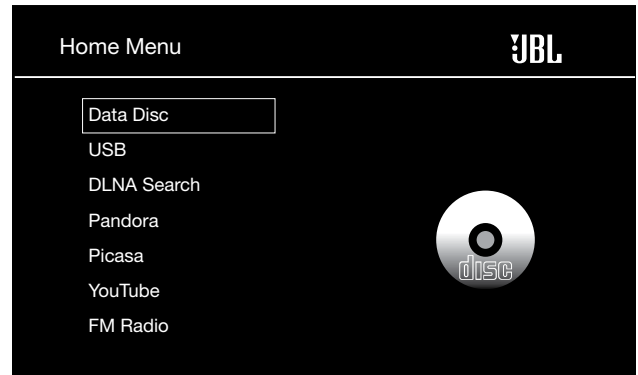


## PLAYING FILES FROM USB DEVICES AND DATA DISCS

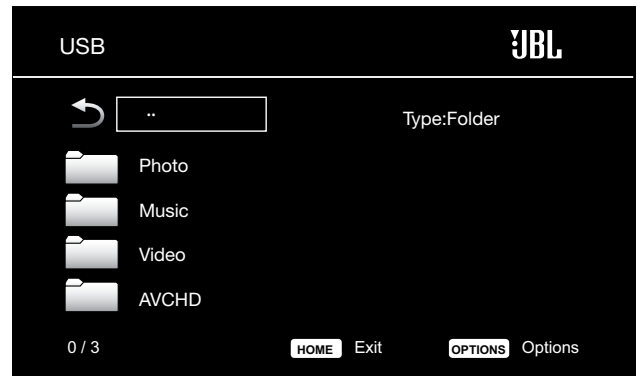
Your Cinema BD system can play MP3 (up to 320kbps bitrate) audio files, display JPEG photos and show MPEG 2 and DivX home theater profile audio/video files stored on a USB device or a CD/DVD data disc.

**IMPORTANT: Only media in the FAT32 file system are compatible with your BD receiver.**

To access files on a data disc loaded in the built-in disc player or a device inserted into the receiver's USB port, press the Home button and select "Data Disc" or "USB" from the source list on the screen.



Regardless of the device's file structure, the screen will first show three individual folders named "Photo," "Music," "Video" and "AVCHD" (high-definition video files from AVCHD camcorders). Select the type of media you want to play from these folders.



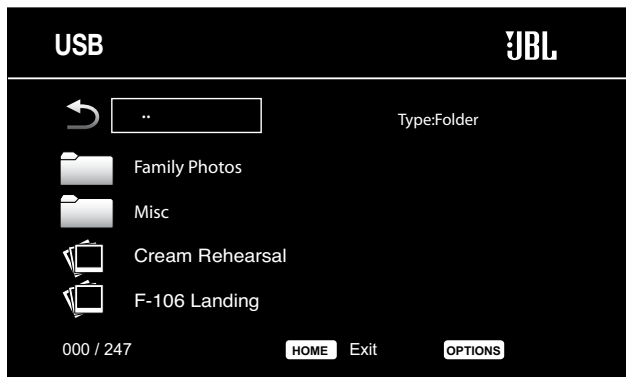
The screen will then show the device's file structure. Selecting a folder will show all files of the selected type of media in the folder. If there are files of the selected type in the device's root directory, they will also be shown.

To move up one directory level, press the Cursor Left button or select the arrow.



## VIEWING PHOTOS

In the top directory, select "Photo." Select a folder containing photo files and highlight a photo file in the folder. A thumbnail of the highlighted photo will appear on the right of the screen.



Use these buttons on the remote control while viewing photos:

**Play button:** Press this button to begin a slide show that displays the photos in the current folder or directory level (starting with the highlighted JPEG) for 5 seconds in the order they appear in the folder.

**Pause button:** Press this button to freeze the current photo on the screen. Press the Play button to resume the slide show.

**Stop button:** Press to end the slide show and return to the directory.

**Next/Step and Previous/Step buttons:** Press these Disc Transport Control buttons to skip to the next or previous photo file in the slide show or directory.

**Cursor Up button:** Pressing this button while a photo is displayed rotates the photo 180°. Pressing this button while the directory list is displayed highlights the previous item in the directory.

**Cursor Down button:** Pressing this button while a photo is displayed shows a mirror-image reflection of the photo. Pressing this button while the directory list is displayed highlights the next item in the directory.

**Cursor Left button:** Pressing this button while a photo is displayed rotates the photo 90° counterclockwise. Pressing this button while the directory list is displayed jumps to the next higher directory level.

**Cursor Right button:** Pressing this button while a photo is displayed rotates the photo 90° clockwise.

**Options button:** Pressing this button while a photo is displayed shows the Options menu, which gives you the following options:

- File: Select a file to view.
- Play Mode: View files in their normal order, in random order (until you press the Stop button) or in shuffle order (displays each image in the folder one time in random order, then returns to the directory).
- Slide Show: Select the amount of time you want each slide to be displayed: 5 seconds, 15 seconds or 30 seconds.
- Transition: Select from various types of image-to-image transitions.

Pressing the Options button when a directory is displayed shows the Playlist Options box. See *Using Playlists*, on page 27, for more information.

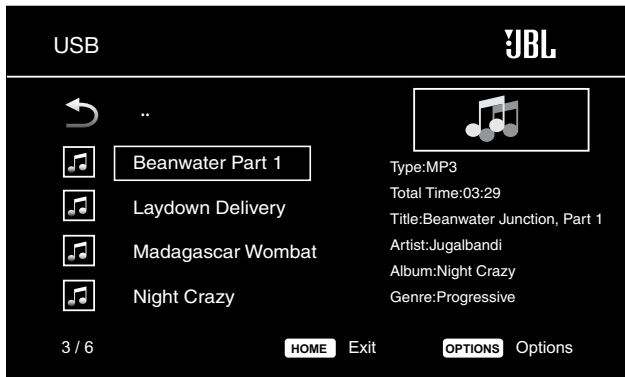
**Thumbnail (Yellow) button:** Pressing this button while playing a slide show displays thumbnail images of all photos in the slide show. Use the Cursor and Enter buttons to highlight and select images to view.



**Zoom (Blue) button:** Pressing this button during a slide show freezes an image and zooms in 2x size. Additional presses of the button change the zoom to 3x, 4x, 1/2x, 1/3x and 1/4x size.

## PLAYING MUSIC FILES

In the top directory, select "Music." Select a folder containing music files and highlight a music file in the folder. Information about the highlighted file will appear on the right of the screen.



Selecting a music file plays the file. If there are other music files in the folder that follow the selected file, the receiver will play them in the order they appear on the on-screen display. The following screen will appear while music files play:



If a selected MP3 file has an album cover-art ID3 tag, the art will be displayed on the screen.

Use the remote's Disc Transport Control buttons to control music-file playback. See *Remote-Control Functions*, on page 8, for more information about the functions of these buttons.

When the BD receiver is playing music files from a USB device or CD data disc, the Repeat and Options functions are slightly different from when they are playing Blu-ray Disc recordings, DVDs and music CDs:

**Repeat button:** Pressing this button cycles through the following repeat modes: 1 (song), All (folder), Off. The active repeat mode is indicated in the screen's top bar.

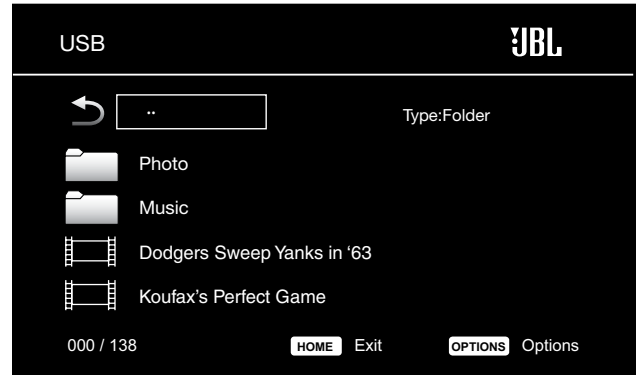
**Options button:** Pressing this button displays any available options for the song currently playing:

- File: Select a song to play.
- Time: Display the track's elapsed time or the track's time remaining.
- Play Mode: Plays songs in their normal order, in random order (until you press the Stop button) or in shuffle order (plays each song in the folder one time in random order, then returns to the directory).
- Bitrate: Shows the bitrate of the song currently playing.
- Advance: Performs a rapid, audible search forward through the song.
- Replay: Each press of the Enter button jumps back ten seconds during play.

While playing music files from a USB device or data CD, you can also view photos that are on the same media. Press the Home button while the music file is playing, navigate to a folder containing photo files, and select a photo file to begin a slide show.

## PLAYING VIDEOS

In the top directory, select the folder labeled "Video" or the folder labeled "AVCHD." Select a folder containing video files and highlight a video file in the active folder.



The video will automatically play. If there are other video files in the folder, the Cinema BD receiver will play them in the order they appear on the on-screen menu.

Use the remote's Disc Transport Control buttons to control video-file playback. See *Remote-Control Functions*, on page 8, for more information about the functions of these buttons.

When the BD receiver is playing video files from a USB device or CD data disc, the Repeat and Options functions are slightly different from playing Blu-ray Disc recordings and DVDs:

**Repeat button:** Pressing this button cycles through the following repeat modes: 1 (current video), All (folder), Off.

**Options button:** Pressing this button displays any available options for the video that is currently playing: File, Title, Chapter, Time, Play Mode, Audio, Subtitle, Code Page, Bitrate, Advance and Replay.

## USING PLAYLISTS

Because USB devices and CD data discs can contain large numbers of playable files, you can create a playlist for each that will make it easier for you to access selected files.

### TO CREATE A PLAYLIST:

NOTE: The procedure is the same for a CD data disc playlist and a USB playlist.

1. Press the Home button. The Home Menu screen will appear.
2. Select CD data disc or USB. The Photo, Music and Video folders will appear.
3. Select the type of file you want to create the playlist for. You can create a playlist for each type of file.
4. As you search through the directory structure, when you see a file you want to include in the playlist for that file type, highlight it and press the Options button. The playlist options box will appear.
5. To add the item to the playlist, select "Add to playlist."
6. Repeat Steps 4 – 5 for all items you want to add to the playlist.

To create a playlist for a different file type, repeat Steps 1 – 6, but in Step 3, select a different file type.

### TO PLAY A PLAYLIST:

1. Press the Home button. The Home Menu screen will appear.
2. Select Playlist. The Photo/Music/Video screen will appear.
3. Select the file type of the playlist you want to play. The playlist will open.
4. Select the first item in the playlist and press the Play button. The playlist will play.

To repeat the playlist, press the Repeat button. You can repeat one item ("1") or the entire playlist ("All").

## TROUBLESHOOTING

If your BD receiver isn't performing the way you think it should, check to see if the problem is covered in this section before calling your JBL dealer.

PROBLEM	SOLUTION
The receiver won't power up (the On/Standby indicator is not lit):	<ul style="list-style-type: none"><li>• Check that the receiver's Power cord is properly plugged into the receiver's AC Power connector.</li><li>• Check that the Power cord is plugged into a working AC outlet. If the outlet is controlled by a switch, make sure the switch is set in the "On" position.</li></ul>
Sound plays through the speakers, but there is no TV picture:	<ul style="list-style-type: none"><li>• Check the HDMI connection between the receiver and the TV.</li><li>• Check the HDMI connection or component video connection between the source device and the receiver.</li><li>• Check that the TV is turned on and is set to the proper input source.</li><li>• Unplug the HDMI cable from the TV and plug it back in again.</li></ul>
There is a constant hum in the sound:	<ul style="list-style-type: none"><li>• Check that all input cables are plugged all the way into their connectors.</li><li>• Check that all cables are at least 10 ft (3.3m) from fluorescent lights.</li><li>• Check that all cable connectors are clean. If necessary, wipe them with a cloth slightly moistened with alcohol.</li></ul>
Streaming service (Pandora, Picasa or YouTube) does not appear on the Home Menu screen:	<ul style="list-style-type: none"><li>• See the table on page 23 to confirm that the streaming service is available in your region. If the service is not available, it will not appear on the Home Menu screen.</li></ul>
Cannot connect to a streaming service that appears on the Home Menu screen:	<ul style="list-style-type: none"><li>• Confirm that the receiver is joined in your home network. See <i>General Settings: Network</i>, on page 17, for information about performing a connection test.</li></ul>
Cannot stream media from other networked devices via DLNA:	<ul style="list-style-type: none"><li>• Make sure the networked devices have given permission to share media. See <i>Digital Living Network Alliance (DLNA)</i>, on page 23, for more information.</li></ul>
The disc does not play:	<ul style="list-style-type: none"><li>• Check that the disc is inserted correctly (label side up).</li><li>• Check that the disc is the correct type: BD-Video (single-layer or double-layer), DVD-Video, DVD+R/+RW, DVD-R/-RW, CDDA (CD digital audio), CD-R/RW. Other disc types will not play.</li><li>• Check that the disc surface is clean and not scratched.</li></ul>
There is noise or other interference in the picture while playing a Blu-ray Disc recording or DVD:	<ul style="list-style-type: none"><li>• Check that the disc surface is clean and not scratched.</li></ul>
Cannot tune in radio stations:	<ul style="list-style-type: none"><li>• Check that the FM antenna is correctly connected.</li><li>• Adjust the antenna's position. If necessary, use a powered FM antenna or an outdoor FM antenna.</li></ul>
The receiver does not respond to remote-control commands:	<ul style="list-style-type: none"><li>• Replace remote-control batteries with fresh ones, and make sure that they are installed with the correct polarity.</li><li>• Hold the remote closer to the receiver.</li><li>• Check that the receiver's remote sensor is in the line of sight of the remote control.</li></ul>
The $\emptyset$ symbol appears on the screen when you press a remote-control button:	<ul style="list-style-type: none"><li>• The selected function is not permitted at the time the button is pressed.</li></ul>
The receiver does not respond to commands, or it behaves in an erratic way:	<ul style="list-style-type: none"><li>• Unplug the receiver's Power cord from the AC outlet, wait 30 seconds, then plug it back in.</li></ul>

You can find additional troubleshooting information in the FAQs link on the Support page at [www.jbl.com](http://www.jbl.com).

## SPECIFICATIONS

### CINEMA BD100 AND CINEMA BD300 RECEIVERS

#### AUDIO SECTION

Total output power:	BD100 – 300W RMS (20% THD); BD300 – 350W RMS (1%THD)
Input sensitivity/impedance (line inputs):	250mV/46k ohms
Signal-to-noise ratio (IHF-A):	-80dB
Frequency response @ 1W ( $\pm$ 3dB):	20Hz – 20kHz

#### FM TUNER SECTION

Frequency range:	87.5MHz – 108.0MHz (US and EU)
Signal-to-noise ratio (mono/stereo):	-55dB/-55dB
Distortion (mono/stereo):	0.3%/0.5%
Stereo separation:	-45dB @ 1kHz
Image rejection:	-70dB
IF rejection:	-80dB

#### DISC PLAYER SECTION

Supported disc formats:	5-inch (12cm) or 3-inch (8cm) BD-Video (single-layer or double-layer), DVD-Video, DVD+R/+RW, DVD-R/-RW, CDDA (CD digital audio), CD-R/RW discs
Region code (BD/DVD):	See table on page 2
Audio formats:	Dolby Digital, Dolby Digital Plus, Dolby TrueHD, DTS Digital Surround, DTS-HD Master Audio, PCM, MP3: 32kbps – 320kbps bitrates, WMA (64kbps – 192kbps)

#### VIDEO SECTION

Television format:	NTSC or PAL (selectable)
HDMI version:	with 3D and 30/36-bit Deep Color

#### BLUETOOTH

Frequency range:	2402MHz ~ 2480MHz
Transmitter power:	<20dBm (ERIP)
Modulation:	GFSK/ $\pi$ /4-DQPSK/8-DPSK
Functions:	Streaming audio play, supports <i>Bluetooth</i> 2.1+EDR, A2DP v1.2, AVRCP v1.4, AAC (BD300 only)

#### GENERAL

Power requirement:	100V – 240V AC, 50/60Hz
Power consumption:	90W
Dimensions (H x W x D):	1-13/16" x 14-1/16" x 12-3/4" (46mm x 358mm x 324mm)
Weight:	1.2 lb (0.55kg)

Depth measurement does not include terminal connections. Height measurement includes feet and chassis.

## SPECIFICATIONS

SATELLITE SPEAKERS	CINEMA BD100	CINEMA BD300
High-frequency transducer:	N/A	1/2" (13mm) titanium-laminate dome, video-shielded
Midrange transducer:	N/A	3" (75mm) paper cone, video-shielded
Full-range transducer:	2-1/2" (64mm) cone	N/A
Dimensions (W x H x D):	N/A	4-3/8" x 3-3/16" x 3-3/4" (111mm x 81mm x 95mm)
Weight:	N/A	1.1 lb (0.5kg) ea.

CENTER SPEAKER	CINEMA BD100	CINEMA BD300
High-frequency transducer:	N/A	1/2" (13mm) titanium-laminate dome, video-shielded
Midrange transducer:	N/A	3" (75mm) paper cone, video-shielded
Full-range transducer:	2-1/2" (64mm) cone	N/A
Dimensions (W x H x D):	N/A	7-5/8" x 3-1/4" x 3-3/4" (194mm x 83mm x 95mm)
Weight:	N/A	1.87 lb (0.85kg)

SUBWOOFER	CINEMA BD100	CINEMA BD300
Low-frequency transducer:	5-1/4" (133mm) cone	8" (200mm) long-throw paper cone
Amplifier power:	N/A	100 watts RMS
Enclosure type:	Bass-reflex	Bass-reflex
Dimensions (W x H x D):	N/A	120V – 13" x 15" x 14" (330mm x 381mm x 356mm); 230V – 16-1/8" x 11" x 14-13/16" (410mm x 280mm x 376mm)
Weight:	N/A	120V – 30 lb (13.6kg); 230V – 12.7kg (28 lb)

Hear the truth.



**HARMAN** HARMAN International Industries, Incorporated  
8500 Balboa Boulevard, Northridge, CA 91329 USA

Made in P.R.C.

© 2012 HARMAN International Industries, Incorporated. All rights reserved.

JBL is a trademark of HARMAN International Industries, Incorporated, registered in the United States and/or other countries. The "Hear the truth" logo is a trademark of HARMAN International Industries, Incorporated.

Apple is a trademark of Apple Inc., registered in the U.S. and other countries.

Blu-ray, Blu-ray Disc and BD-Live and their respective logos are trademarks of the Blu-ray Disc Association.

The *Bluetooth* word mark and logo are registered trademarks and are owned by the Bluetooth SIG, Inc., and any use of such marks by HARMAN International Industries, Incorporated, is under license.

DIVX: (1) ABOUT DIVX VIDEO: DivX® is a digital video format created by DivX, LLC, a subsidiary of Rovi Corporation. This is an official DivX Certified® device that plays DivX video. Visit [divx.com](http://divx.com) for more information and software tools to convert your files into DivX video. (2) ABOUT DIVX® VIDEO-ON-DEMAND: This DivX Certified® device must be registered in order to play purchased DivX Video-on-Demand (VOD) movies. To obtain your registration code, locate the DivX VOD section in your device setup menu. Go to [vod.divx.com](http://vod.divx.com) for more information on how to complete your registration. (3) DivX Certified® to play DivX® video up to HD 1080p, including premium content. (4) DivX®, DivX Certified® and associated logos are trademarks of Rovi Corporation or its subsidiaries and are used under license.

DLNA®, the DLNA Logo and DLNA CERTIFIED® are trademarks, service marks, or certification marks of the Digital Living Network Alliance.

DOLBY DIGITAL PLUS TRUE HD. Manufactured under license from Dolby Laboratories. Dolby and the double-D symbol are registered trademarks of Dolby Laboratories.

DTS DIGITAL SURROUND. Manufactured under license under U.S. Patent #: 5,956,674; 5,974,380; 6,487,535 & other U.S. and worldwide patents issued & pending. DTS, the Symbol and DTS and the Symbol together are registered trademarks, and DTS Digital Surround and the DTS logos are trademarks, of DTS, Inc. Product includes software. ©DTS, Inc. All Rights Reserved.

Google, Picasa and YouTube are trademarks of Google, Inc.

HDMI, the HDMI logo and High-Definition Multimedia Interface are registered trademarks of HDMI Licensing LLC in the United States and other countries.

Intel is a trademark or registered trademark of Intel, Inc.

Microsoft, Windows and Windows Media are registered trademarks of Microsoft Corporation in the United States and/or other countries. WMA (Windows Media Audio) is a proprietary file format developed by Microsoft.

Pandora is a registered trademark of Pandora Media, Inc.

Rovi is a registered trademark of Rovi Corporation.

Wi-Fi is a registered trademark of the Wi-Fi Alliance.

This item incorporates copy-protection technology that is protected by U.S. patents and other intellectual-property rights of Rovi Corporation. Reverse engineering and disassembly are prohibited.

Features, specifications and appearance are subject to change without notice.

Part No. HKP4934, Rev. A

[www.jbl.com](http://www.jbl.com)